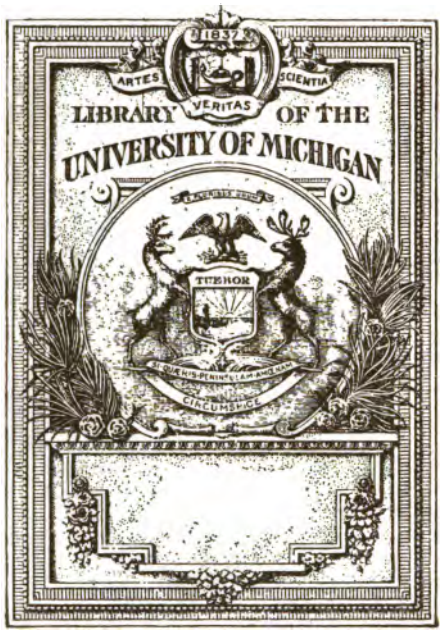
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DEPARTMENT OF COMMERCE
BUREAU OF FOREIGN AND DOMESTIC COMMERCE
E. E. PRATT, Chief

SPECIAL AGENTS SERIES—No. 121

ARTIFICIAL DYESTUFFS USED IN THE UNITED STATES

QUANTITY AND VALUE OF FOREIGN IMPORTS AND OF DOMESTIC PRODUCTION DURING THE FISCAL YEAR 1913-14

By

THOMAS H. NORTON
Commercial Agent

WASHINGTON
GOVERNMENT PRINTING OFFICE
1916

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LETTER OF SUBMITTAL.

DEPARTMENT OF COMMERCE,
BUREAU OF FOREIGN AND DOMESTIC COMMERCE,
Washington, August 31, 1916.

SIR: There is submitted herewith a report by Commercial Agent Thomas H. Norton on the artificial dyestuffs currently employed in the United States by the textile, paper, ink, varnish, fur, feather, paint, and various other industries. The report gives in detail the quantity and value of each of the 5,674 brands of synthetic colors imported from Europe into the United States during the fiscal year 1913–14. It furnishes similar information on the coal-tar crudes and intermediates imported during the same period. A complete list of all artificial colors manufactured in the United States prior to 1915 is added.

The volume provides in compact, carefully classified form all available data on quantity needed by those now engaged in creating a comprehensive, self-contained, American coal-tar dyestuff industry. Without such exact information on the extent of the normal domestic consumption of each of the several thousand dyes in current use, this new branch, thus far lacking in the cycle of the nation's manufacturing activities, can not come into existence, except in a costly, haphazard, slow, uncertain manner. The report will, therefore, constitute the most important foundation stone for the young American industry.

It is noteworthy that no similar census of colors has hitherto been attempted in any country or in any language—possibly on account of the vast amount of expert labor required for the compilation and editing of the great volume of data.

In the collation and arrangement of the data in this report Dr. Norton has had the cooperation of Maurice J. Langdon, Ph. D., William M. Springer, Ch. E., and Mr. Thomas Tryon, all of New York City. Highly valued aid has also been rendered by officials of the customs division of the Treasury Department, especially by those connected with the New York Customhouse, in bringing together the documentary material containing the data. Cordial and valued assistance has likewise been given by the Chief Statistician for Manufactures in the Bureau of the Census. The Barrett Co.. of New York City,

has courteously permitted the use of the instructive diagram, "Products derived from coal and some of their uses," which accompanied a paper by Mr. William Hamlin Childs, president of the company, read before the American Iron and Steel Institute at its annual meeting in New York, May 26, 1916. Dr. D. D. Berolzheimer, librarian of the Barrett Co., has kindly assisted in compiling the bibliography of works dealing with coal-tar derivatives.

Respectfully,

E. E. PRATT,
Chief of Bureau.

To Hon. WILLIAM C. REDFIELD,
Secretary of Commerce.

ARTIFICIAL DYESTUFFS USED IN THE UNITED STATES.

INTRODUCTION.

The necessity for a complete enumeration of the artificial coloring matters regularly consumed by the various manufacturing industries of this country soon became evident when these branches were threatened in 1914 by a dyestuff famine, as a result of the great European war.

Those who took into careful consideration the possibility of creating an independent American coal-tar dyestuff industry were obliged to study closely a number of factors bearing upon this exceedingly complicated question.

Among these were such items as the supply of crude materials, the chemists and chemical engineers available, the probable attitude of the European interests hitherto furnishing our synthetic dyes upon the return of normal international conditions, the requisite fiscal and other legislation essential to safeguard American enterprise and capital against unfair competition on the part of such foreign rivals, etc.

First and foremost, however, came the factor of quantity. What is the total annual consumption of artificial colors in the United States? How many different dyes are in current use? What is the average annual consumption of each of these dyes?

The necessity of exact information on these three points is self-evident to some. For most a brief explanation may be helpful.

In a general way we know how the great dyestuff industries of Germany and Switzerland are organized. We understand the relations of capital, of technical staff, etc., to output. From an economic standpoint it is necessary to know the total extent of the American market for this class of products, in order to estimate approximately the amount of capital required for a comprehensive industry, the number of trained chemists and engineers needed, and the quantities of coal-tar crudes to be provided. These form the main links in the chain connecting the gas works and the coke plants yielding coal tar and the gases containing benzene and its homologues, with the multitude of mills and shops in which synthetic colors are employed to produce chromatic effects upon wares of the most varied nature—paper, textiles, leather, wood, ink, varnish, fur, feathers, foods, beverages, etc.

While such leading data are of prime importance from a general economic standpoint, of still greater value are the details concerning the specific products of the synthetic color industry.

NECESSITY OF A CENSUS OF DYES.

There are nearly 1,000 coal-tar dyestuffs of recognized standing in the tinctorial world; i. e., their chemical composition, or at least the methods of preparation, are publicly known. About twice as many are regularly manufactured, and enter into international trade. Regarding the preparation or the composition of these little or nothing has been published. Many colors of both categories are encountered commercially in the form of several marks or brands. They represent slight modifications of the primary dye, sometimes in regard to shade, often in regard to convenience of application. The form in which a dye is prepared for use on cotton may not be the best form for the needs of the silk dyer. The requirements of the feather dyer may be quite different from those of the manufacturer of ink.

It is essential that the organizers of a national color industry know, with a certain approximation to accuracy, how much annually is consumed of each primary dye and how much of each minor modification is employed. Without such data a manufacturer can not calculate the size and number of the units to be constructed for the production of any given dye, and he is at an equal loss as to the equipment necessary to manufacture it in the different modifications of current use.

Again, the industry is one of great complexity, involving a high degree of coordination and of careful planning to avoid material loss in the way of by-products. In the various steps intervening between a coal-tar "crude" and a finished dyestuff each chemical reaction in the sequence is apt to produce certain percentages of closely allied compounds, isomeric substances as a rule. These latter may possess the same general chemical composition as the product more directly sought. The arrangement of the atoms in the molecule is, however, quite different. As a result, physical and chemical properties are totally unlike those characterizing the main substances. Such by-products possess, as a rule, distinct technical and commercial value. One may serve to make an entirely different dyestuff, another may be the raw material for manufacturing a valued medicinal; a third may be employed in the production of a photographic developer, etc.

It is evident, therefore, that the establishment of a synthetic color industry means an elaborate study of a multitude of interrelated operations, allied furthermore with numerous products in a group of closely connected industries, based likewise upon the use of coal-tar crudes. To some extent the changing whims of fashion enter into play. Back of every plan and calculation stands, however, the dominant factor of quantity.

It is now generally recognized that any intelligent effort to build up a comprehensive, self-contained American coal-tar chemical industry must rest upon the solid foundations of accurate statistical data concerning the American market for artificial colors. In no other way can the creators of such an industry avoid duplication, overlapping, waste, and blundering, tentative struggles to adjust productive mechanism to a vague, indefinite demand. Without such fundamental data the future industry will be heavily handicapped by permanent overhead charges, accumulated as the result of being forced to feel its way in the dark, chemically, mechanically, and commercially.

If the coming American dyestuff industry is to hold its own successfully against foreign competition, it must be free from any unnecessary shackle. It must start into existence during these years of conflict in Europe. It must utilize to the full all the gathered stores of experience accumulated during the six decades since Perkin's epochal discovery, and become a world factor in the seventh period of the history of synthetic color at whose portal we now stand.

To no one is this country more indebted than to Dr. Bernhard C. Hesse, of New York, for a clear, forcible presentation of the complexity of the synthetic dyestuff industry and of the pressing necessity of accurate data on the domestic consumption of artificial colors.

In April, 1915, in an address before the National Association of Cotton Manufacturers, he outlined the problem to a representative body of consumers of colors so lucidly and so effectively that much of what he stated on that occasion can appropriately be reproduced here as a historic document.

EXTRACT FROM AN ADDRESS BY DR. BERNHARD C. HESSE ON THE NEED OF A CENSUS OF COAL-TAR COLORS.

The elements of the manufacturing problem may be stated as follows:

Ten things from coal tar, called "crudes," form the contribution of coal tar to this industry.

These 10 things, by the aid of numerous non-coal-tar things, such as acids, alkalies, gases, and the like, are converted into about 300 other things called "intermediates."

These 300 intermediates are "assembled" to form 900 finished products or dyes.

A parallel might be: Ten fibers make 300 yarns, which are woven into 900 patterns.

In the dye industry the key to the situation is in the "intermediates," i. e., the "yarns" of the parallel. In the "assembling" of the intermediates to dyes, little if any disturbance is introduced by the formation of "by-products"; this difficulty is practically limited to the making of intermediates, and the manufacturing problem is largely centered at that point. By-products are unfortunately formed at almost all the steps in making intermediates from crudes.

This is illustrated in figure 1, where the toluol is shown as being treated with chlorine. In this case the products are three, namely:

1. Benzyl chloride,
2. Benzal chloride,
3. Benzo-trichloride.

They are wholly different from each other. While No. 1 can be converted into No. 2 or No. 3, or No. 2 can be converted into No. 3, the reverse is not commercially possible. If any one of these three is desired, more or less of the other two is always produced, except perhaps in the case of No. 3 under very narrow specific conditions. If you want No. 1 you must be prepared to find some No. 2 and some No. 3 with it, and so on. The proportions are under some control, but not wholly. The relative and actual amounts of each made during a given period, say one year, will depend upon other conditions; but at the end of the year all three should be completely manufactured up into goods. The factory that handles this problem best is, of course, best positioned.

As a parallel: Suppose that a spinning machine, set for fine yarn, always had to make a certain amount of medium yarn and of coarse yarn. When these yarns are woven up, the amounts of woven product will depend upon the relative amounts of fine, medium, and coarse yarns available.

By consulting figure 1 you will see that benzyl chloride, the fine yarn of the parallel, is used with other things in making three dyes; that benzal chloride, the medium yarn of the parallel, is used in a group of dyes numbering, say, 30; that benzo-trichloride, the coarse yarn of the parallel, is used in but one dye of that figure. The fine yarn is used in three patterns, the medium in 30 patterns, and the coarse yarn in one pattern.

The manufacturing problem here is to adjust your weaving capacity so that it shall always keep pace with your spinning capacity.

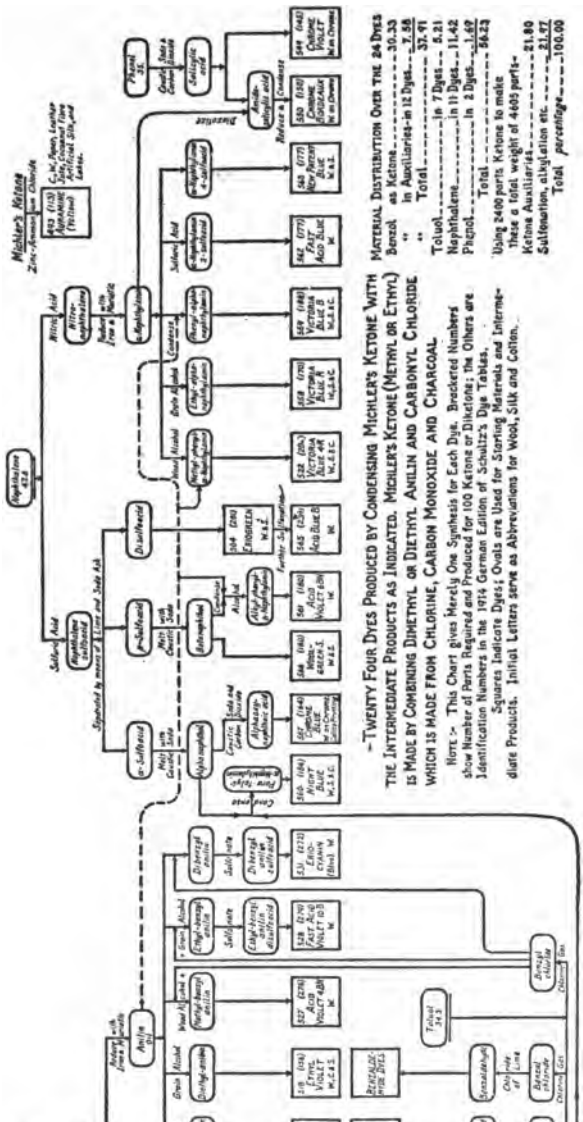
—TWENTY FOUR DYES PRODUCED BY CONDENSING MICHLER'S KETONE WITH THE INTERMEDIATE PRODUCTS AS INDICATED. MICHLER'S KETONE (METHYL OR ETHYL) IS MADE BY COMBINING DIMETHYL OR DIETHYL ANILIN AND CARBONYL CHLORIDE WHICH IS MADE FROM CHLORINE, CARBON MONOXIDE AND CHARCOAL
NOTE :- This Chart gives Merely One Synthesis for Each Dye. Bracketed Numbers show Number of Parts Required and Produced for 100 Ketone or Dikotone; the Others are Identification Numbers in the 1914 German Edition of Schultz's Dye Tables. Squares Indicate Dyes; Ovals are Used for Starting Materials and Intermediate Products. Initial Letters serve as Abbreviations for Wool, Silk and Cotton.
MATERIAL DISTRIBUTION OVER THE 24 DYES
Benzol as Ketone 30.33
" in Auxiliaries-in 12 Dyes 7.58
" Total 37.91
Toluol in 7 Dyes 5.21
Naphthalene in 11 Dyes 11.42
Phenol in 2 Dyes 1.68
Total 54.23
Using 2400 parts Ketone to make
These a total weight of 4005 parts-
Ketone Auxiliaries £1.80
Salfonation, alkylation etc. 21.97
Total percentage 100.00

FIGURE 1.

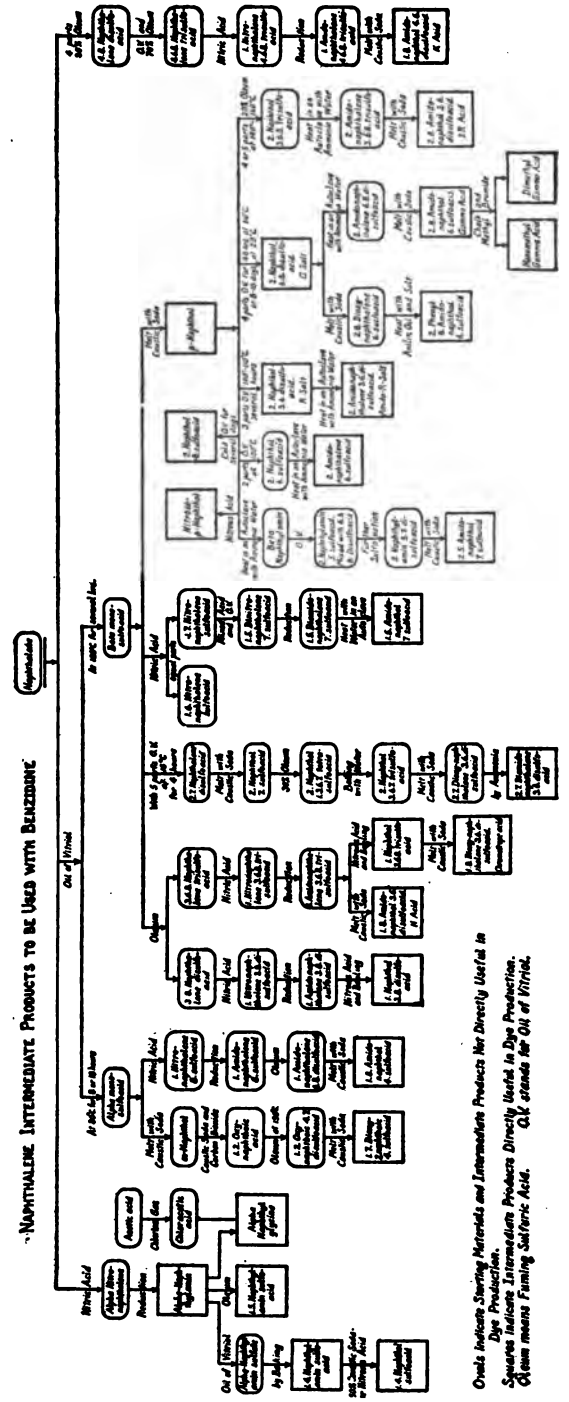
Naphthalene Intermediate Products to be Used with Benzidine
Ovals indicate Starting Materials and Intermediate Products Not Directly Useful in Dye Production.
Squares indicate Intermediate Products Directly Useful in Dye Production.
Oleum means Fuming Sulfuric Acid.
Oil of Vitriol stands for Oil of Vitriol.

FIGURE 2.

Now, figure 1 represents about one-fortieth or 2½ per cent of the present-day finished dyes. As a matter of fact, these chlorides, i. e., these yarns of the parallel, are useful in many other dyes or "patterns." This complicates the problem considerably; but leave that out of present consideration.

In figure 2 you will see that one "yarn," i. e., 1.6 nitro-naphthalene-sulphonic acid is produced in equal amount with another "yarn" 1.7 nitro-naphthalene-sulphonic acid. Further, the 1.6 "yarn" is of no use whatever in making other "yarns" or other "patterns"; 1.6 is a dead loss, so far as this chart is concerned; 1.7 must be changed into three intermediate "yarns" before it is converted into a "yarn" that can be woven into a "pattern."

The chemist can not completely eliminate these by-products; he can control them, but they are always with him. The only manufacturing remedy is to work them up into other products that are salable. That is one of the annoying solid facts confronting this industry.

In the merchandising end your sales department must be capable of placing at a profit each of the various finished dyes in such relative amounts that practically none of the by-products is left unsold at the end of the year.

To go back to the parallel: Assume these "yarns" to be used as the weft or filling only; the fine yarn is used for babies' jackets, the medium for men's socks, the coarse for mittens. Assume, also, that the relative amounts of these yarns is such that for every 100 baby jackets you must make 10 pairs of socks and 5 pairs of mittens. The sales department has got to keep these markets in that alignment, namely, 100:10:5. If the mitten market takes a jump the factory has got to get more coarse yarn from somewhere or make more jackets and socks, and the sales department has got to nurse the jacket and sock markets up to mitten-market proportions. If these markets can not be increased the factory must look for a new or added supply of coarse yarn, or the works must carry jackets and socks in stock until their markets look up again. In this parallel the operation can be so set that one or the other of the three chlorides is in excess; the factory can reset the operation so that more of the coarse yarn, or of the medium yarn, or of the fine yarn can be made, but all three are made, and their products must be disposed of. This is not always a difficult problem, but is in many cases. A similar condition is repeated at each oval of figures 1 and 2.

Only those ovals next preceding the squares of figure 1 when used as "filling" with Michler's ketone as "warp" produce the 24 dyes there listed. The other ovals are merely contributory to such final ovals. The squares of figure 2, when used as "filling," with benzidine as "warp," produce part of the "filling" needed to make 82 of the benzidine direct cotton dyes, not shown.

In figure 1 there are upward of 40 points where the above parallel of jackets, socks, and mittens has to be worked out, but under different conditions, and with different products and different market conditions in each case; serious and important in most of the cases and of little importance in but few. In figure 2 there are over 60 such points. So, for these 106 dyes or "patterns" there are about 100 points where the factory and sales divisions must cooperate as above described—teamwork of the highest order.

Thus, in the manufacture of these 106 dyes, important points of economic balance between intermediate products occur about 100 times.

For the 900 dyes of the American market there are probably several hundred such points, and they must be solved if a complete and independent coal-tar dye industry is to be created here.

From the actual manufacturing viewpoint this is not at all an insoluble problem for our country. No one will, however, deny that it is a difficult and hazardous problem commercially, and its ultimate solution will be quite different from that in Germany. Here we will have to solve it in competition with a worked-out and operative method. We will have to go ahead slowly, and *our speed will be governed by the accuracy of our knowledge of the markets for the finished dyes in this country*. For some time we will have to be dependent solely upon our own market as an outlet, while Germany can look to over 30 other countries as a source of revenue for its dye industry.

In considering figures 1 and 2 bear in mind that each square or oval represents a separate and distinct manufacture, calling for separate apparatus, oversight, and management. In figure 1 the squares represent finished dyes or "patterns"; the ovals represent intermediates or "yarns." The annual output of each of these squares is by no means the same from square to square. The factory division will have to know within reasonable limits the annual amount of each to be made, before it can operate to the best advantage. It can, of course, go ahead and build the several types of apparatus of a certain size and trust to developments to teach it how the different colors should be manufactured with respect to each other, and then alter and change to suit

the new conditions. That, of course, is slow and expensive. It might well be that at the very outset the conditions had been misconstrued. *It is the lack of this knowledge that is holding up general progress here more than any other single technical point or feature.*

Obviously, the more information at hand as to the actual market conditions for each of these 24 dyes in this country the smaller the risk due to alterations and changes. Multiply these conditions so as to cover the 900 dyes of this market and you will have an idea of the magnitude and complexity of this one aspect of the problem alone. Just translate this problem to cover 900 different fabrics made up of 300 different yarns and 10 fibers and no doubt its bewildering and puzzling nature and importance will more effectively be brought home to you, particularly if you keep in mind the by-products feature of the problem.

Or, to put it another way: Suppose each oval and square of figure 1 to be a separate building or portion of a building, and give yourself the problem of laying out a hundred-acre lot with its buildings so adjusted as to size, and so arranged as to relative position, that no motion or efficiency loss results, and to provide for 900 squares and 300 ovals. The first thing you would want to know would be the size of the various buildings, and these are determined by the size of the squares and these in turn by the output expected of them, and this is governed by their respective markets in this country. Then add to this the problem of properly arranging your apparatus in each building and in the proper building.

The complexity of this problem is not reduced by the fact that these squares and ovals are not all the factory buildings or their equivalents that are needed. You need sulphuric, muriatic, nitric, and acetic acid plants, caustic soda, chlorine, and many other similar plants, none of them here shown. How large shall these be? Where shall they be located and what amounts of all raw materials shall be contracted for? These are all questions that must be disposed of before progress can be made in establishing a complete, self-contained, and independent industry.

To my mind there is no escape whatever from the conclusion, which I have elsewhere stated, that the fundamental information required for the solution of this national problem is *that as to actual domestic market conditions of these 900 dyes or "patterns."* Proceeding without such knowledge is accompanied by excessive risk. Progress under those conditions must be made cautiously and, in consequence, slowly.

Surely, in such a long line of intermediates and finished dyes there must be several points of entry for a domestic industry, complete and independent. Which is the point of successful entry? That is the rub. Some domestic makers are trying to break in along the line of aniline oil; others by the way of paranitraniline and betanaphthol; others are considering indigo or alizarin; and still others are thinking of a wool black as the point of entry, and so on. Which will succeed, some or all, can be answered by events alone. They may all have guessed right. Some or all may have guessed wrong. In any event, these attempts must each result in a partial solution only, and will requre much time. These attempts being made at widely separated points, it follows that at each such point much duplication of labor and expenditure must occur. That is, there will have to be duplication of the various auxiliary chemical plants and similar contributory factories. Such a campaign must necessarily lead more slowly to a complete and self-contained solution of this problem than would concerted action at a single plant. Reduced to its simplest terms and supplemented by considerable knowledge, the problem is simply bristling with constructional, technical, and merchandising difficulties, quite apart from the economic obstacles in its way.

For example, aniline oil, as such, is roughly $400,000 per year, or $1,333 per day. However, aniline oil enters into all the dyes of figure 1 by way of Michler's ketone, and in addition as "filling" in 12 dyes or "patterns." It makes up about 35 per cent, by weight, of all these 24 dyes based upon a common unit of ketone. Aniline is one of the materials for indigo, and its progenitor—nitrobenzene—is used in making benzidine. Aniline oil is also used in making many of the auxiliaries, or "fillings," in many of the benzidine dyes. Now, how large must an aniline oil plant be to make the necessary aniline oil and nitrobenzene for (1) the aniline oil market, (2) the indigo market, (3) the ketone dye market (fig. 1), (4) the benzidine dye market (fig. 2)?

From our commerce reports, No. 1 is about $400,000 and No. 2 is about $120,000; but there is no way of telling from these reports how large 3 and 4 are. Nos. 1 and 2 call for about 5,000,000 pounds, worth $500,000, of aniline oil a year. Do 3 and 4 make up another 5,000,000 pounds, or only 1,000,000 pounds, of aniline oil or nitrobenzene?

How much larger must the plant be to provide for all the aniline used in the remaining dyes consumed in this country?

The consumption of para-nitraniline is said to be anywhere from 400,000 pounds to 2,000,000 pounds, according to the source of information. Beta-naphthol varies to the same extent. Assuming that their consumption is each 2,000,000 pounds, with para at 20 cents per pound, the annual consumption is worth $400,000, and with beta at 8 cents per pound its value is $160,000. That is, the daily average of para is $1,333 and of beta $533. This amount of para would call for an additional amount of about 2,000,000 pounds of aniline oil per year.

How large is the wool-black market? There are no official figures to give even a guide to a guess. The best type of wool black calls for 23 per cent of salicylic acid, 23 per cent of naphthylamine, and 38 per cent of naphthol-sulphonic acid by weight.

How large shall the salicylic acid plant be? How much carbolic acid must be provided? How much naphthylamine and how much naphthol-sulphonic acid? Without a reasonable knowledge of what the total consumption of wool black is, who can make even an approximate guess.

Then come the questions: What share of this total market is your particular plant going to get? If not all of these 900 dyes are to be made, which ones will you omit?

It is therefore clear that a mere knowledge of grand averages and of maximum amounts is of little help in planning the layout of an establishment of this kind. As nearly definite information as possible for each of the 900 finished dyes should be at hand in order that a reasonably safe layout may be made.

Some of the difficulties just mentioned would be reduced, but not eliminated, if reasonably complete information as to this country's markets were accessible to those who are endeavoring to solve this problem for the Nation. Those who have this information are of two classes, and they will not divulge it, namely, the importers collectively, and they certainly can not be expected to hand it over; the others are the dye users collectively, and they decline to give it.

I doubt if there is any one thing that the dye users of this country can do that promises to push this problem further along toward a technical solution than to collect this information in a dependable manner, and make it accessible to prospective dye makers. If, with that knowledge available, the problem can not be technically solved, the *chances are that it never can be solved.* In the event of a successful solution, while this information is withheld, that knowledge will have to be acquired by the slow, laborious, and expensive method of "cut and try"—that is, of "feeling out" the market.[1]

ACTION OF THE BUREAU OF FOREIGN AND DOMESTIC COMMERCE.

Early in 1915 the embargo came into force shutting off German dyes from this country. Long before, the relatively small supply of colors from England, France, Belgium, and Holland had practically ceased and the somewhat more important source in Switzerland was threatened with paralysis.

The Bureau of Foreign and Domestic Commerce in Washington was following with the keenest interest, and even with anxiety, the initial steps taken bravely and resolutely by a small band of far-sighted American men, some manufacturers, some capitalists—all patriots—convinced that finally the opportunity had arrived to build up a genuinely national coal-tar chemical industry.

In the earnest desire to second their efforts and facilitate their plans, as well as to insure the most favorable and economical conditions for the rapid evolution of the new industry on a permanent basis, it was promptly recognized, in harmony with the reasoning detailed above, that nothing could be of such direct assistance as a "census" of the dyestuffs consumed normally in this country. Plans were carefully laid to carry out the work as expeditiously, accurately, and fully as the very limited appropriations at the command of the Bureau for such general purposes would permit.

[1] Textile Manufacturers' Journal, May 1, 1915, p. 60.

HOW THE CENSUS WAS TAKEN.

First of all it was necessary to decide upon the *modus operandi*. It has been suggested by some, who had early recognized the desirability of such a "census," that the only available method for securing the needed data was to appeal to all consumers of artificial colors for their cooperation. It was thought that a ready response would be given to circular requests for detailed information regarding the annual consumption of coal-tar dyes by each user of the same. It was proposed, in order to overcome the customary repugnance of manufacturers to communicate facts of this nature, that the replies should be sent to some central financial institution, which would guarantee secrecy in collating the numerical information thus gathered.

A careful analysis of the problem showed that any such method of collecting data was impracticable. It would be impossible to secure a complete list of all users of dyestuffs in scores of trades and manufacturing branches. Assuming that figures could be obtained from all users of colors, their compilation would be a herculean task. Suppose that 5 tons of Congo Red are consumed annually in this country. This amount might be divided up among several thousand consumers in lots ranging from 5 to 100 pounds.

With a somewhat elementary knowledge of human psychology, it was furthermore certain that no replies could be expected from the great majority of the recipients of circular requests. Indifference, suspicion, or pure laziness are serious factors to overcome.

BRITISH ATTEMPT TO TAKE A CENSUS OF COLORS.

The correctness of this conclusion has recently been abundantly verified by trans-Atlantic experience. British textile and allied interests have been forced to deal with a far more serious "dyestuff famine" than has been the case in the United States. There was a similar determination to build up a genuinely national color industry. The necessity of a dyestuff "census" was likewise recognized as of paramount importance. An influential committee, representing makers and consumers of dyes, took the matter in hand. Appreciating the futility of dealing directly with the multitude of individual users of colors, the committee decided to collect its statistics through the various powerful organizations of trades employing large quantities of dyestuffs and then double the results, thus roughly approximating at the entire national consumption of the various colors. After months of labor the committee was forced, in November, 1915, to report a practical failure. Replies were secured from but 19 associations or large individual consumers. The figures obtained covered but 3,145 short tons, perhaps 12 per cent of the national consumption.

FEATURES OF THE CENSUS.

The method adopted by the Bureau of Foreign and Domestic Commerce was much more simple, direct, and accurate. As in the case of Great Britain, nearly nine-tenths of the normal American consumption is derived from European sources. It was decided to use the data based upon the imports of artificial colors into this country during the 12 months ending June 30, 1914—a month before the outbreak of the present war. The remaining tenth is covered by the

returns of the Bureau of the Census for the domestic coal-tar dyestuff industry, based upon the production in the calendar year 1914. No serious interference in the output of American colors occurred until after the beginning of 1915.

With the cordial cooperation of the Secretary of the Treasury, all the invoices for the year in question were sent by the collectors of customs at the various ports of entry to a central point, where the essential data were transcribed. These include weight, value, and price. Some 37,500 different transcripts, each covering these three items, were necessary.

These entries are found under 5,674 heads, each representing a distinct commercial designation. It must not be inferred, however, that this number of different colors comes into consideration. Many standard dyes are manufactured by several firms in the same country as well as in various countries. Frequently, some or all of the competing manufacturers use entirely different trade names for identical wares.

Thus, the red color, known chemically as sodium α-naphthalene-azo-α-naphthol-disulphonate, is manufactured under the name of Palatine Red by the Badische Co. The Bayer Co. sells it under the name of Naphthorubine. Primuline is encountered commercially as Polychromine, Thiochromogene, Aureoline, and Sulphine. Malachite green, a favorite color, is found under 38 different designations, few representing even slight variations in the exact chemical composition.

The reduction of this extensive vocabulary to the limits of the list given in this volume has required highly specialized editing. It is hoped that the arrangement and the full use of synonyms are such as to render the published results of the greatest utility, not only to all engaged in the manufacture of artificial dyestuffs and especially in planning for the establishment of a comprehensive American color industry, but also to all dealers in the wares and to all consumers of dyeing materials.

All three of these categories have hitherto been indebted to the painstaking labors of several prominent German color chemists, notably of Gustav Schultz and Paul Julius, for complete and detailed classifications of the coal-tar dyes in current use. The carefully elaborated "Farbstofftabellen," devised by the two authors, reached a fifth edition in 1914. These "tables," divided into groups according to chemical relationship, give for every artificial dye of known composition or preparation the commercial designation, the scientific name, the chemical formula, physical and chemical properties, methods of application, tests, and full references to patents and literature. They have for years been the *vade mecum* of all connected with the manufacture of colors, their commerce, and their manifold uses.

VALUE OF THE CENSUS.

It has remained for a bureau of our Government to supplement the work of the German authors, by adding the important factor of quantity. The complete exposition of the exact amounts of the many synthetic dyes, required to meet the almost numberless needs of a population of over 100,000,000, portrays approximately the relative demands of all other nations with highly organized textile and allied interests. The young American dyestuff industry, now in a position

to expand rapidly and to embrace in its scope the great majority of the colors in current use, will naturally find in these data a guide for coordinating the diverse phases of manufacture, establishing the capacity of units, and shaping all plans for harmonious expansion.

More than this, it will be of almost equal value to those seeking to create the national coal-tar industries of Great Britain, France, Russia, and Italy. Even the newly organized industry in Japan may profit from its summaries, although in a less pronounced degree, on account of the widely divergent taste for colors between the Orient and the Occident.

Should China plan to manufacture her own coal-tar dyes, but little help could be secured from this compilation in formulating schemes for installing plants. Synthetic indigo constitutes two-thirds of the Chinese consumption of artificial colors. It enters to the extent of 14 per cent into the Japanese imports of dyestuffs, and forms but 10 per cent of the American consumption.

One of the first results of the compilation of this census was to show how exceedingly vague an idea of the extent to which synthetic dyes are consumed in the United States prevailed in commercial and manufacturing circles. Those most closely in touch with the branch have estimated hitherto that the annual American consumption of coal-tar colors did not exceed 20,000 tons. As a matter of fact, it is nearly one-half again this amount—more exactly, 29,000 short tons.

SUMMARY OF THE MOST IMPORTANT COLORS IMPORTED.

For the convenience of those studying the problem of dyestuff manufacture in its broader phases, the following summary of the more important synthetic colors currently imported into this country has been compiled from the complete list enumerated on pages 41 to 219.

It includes practically all colors the annual importation of which, during the fiscal year 1913–14, exceeded in amount 10,000 pounds.

Full explanations regarding the order of arrangement and the serial numbers used, are found on page 38. The abbreviation V. M. denotes "various marks."

Serial No.	Commercial name.	Pounds.	Invoice value.	Serial No.	Commercial name.	Pounds.	Invoice value.
	NITROSO AND NITRO COLORS.				PYRAZOLONE COLORS.		
				19	Fast Light Yellow	33,514	$10,272
4	Naphthol Green	19,146	$2,902	20	Flavazine S	19,000	4,927
7	Naphthol Yellow	250,409	24,702	20a	Flavazine (V. M.)	62,375	10,700
				22	Xylene Yellow	23,074	9,759
	STILBENE COLORS.			23	Tartrazine	265,781	53,137
9	Direct Yellow	71,399	11,295		AZO COLORS.		
9a	Naphthamine Yellow (V. M.)	42,180	6,748	33	Chrysoidine	63,303	8,585
9b	Direct Yellow (V. M.)	79,055	16,784	34	Chrysoidine R	105,946	16,852
9g	Direct Yellow B	29,123	2,766	37	Croceine Orange	11,366	1,535
10	Stilbene Yellow	50,477	7,464	38	Orange G	48,456	7,159
10a	Stilbene Yellow RX	34,588	6,305	45	Brilliant Lake Red R	31,674	2,337
11	Chloramine Orange	24,688	5,914	48	Alizarin Yellow	144,761	11,118
13a	Diphenyl Orange GG	13,646	3,938	56	Autol Red	49,847	5,379
14	Diphenyl Chrysoine	9,898	3,071	58	Mordant Yellow	26,570	4,112
18	Diphenyl Fast Yellow	9,656	2,988	58a	Alizarin Yellow (V.M.)	59,000	7,676
				58c	Orange 13, 14	10,974	2,634

Serial No.	Commercial name.	Pounds.	Invoice value.	Serial No.	Commercial name.	Pounds.	Invoice value.
	AZO COLORS—contd.				AZO COLORS—contd.		
61	Victoria Violet	47,126	$10,998	247	Scarlet	36,598	$4,228
63	Azo Acid Blue	44,258	8,544	257	Sulphon Cyanine	128,944	21,118
64	Lanafuchsine	68,055	9,375	257b	Tolyl Blue	16,750	2,967
66a	Amido Naphthol Red	36,000	25,970	265	Sulphon Cyanine Black	69,590	7,663
70	Brilliant Orange O	21,480	8,835	266	Naphthylamine Black	152,141	21,903
73	Helio Fast Red	13,413	2,141	269	Acid Black	35,662	5,765
73a	Lithol Fast Scarlet	36,295	9,287	269a	Naphthol Black (V. M.)	131,890	19,436
80a	Wool Scarlet (V. M.)	39,888	6,293	272	Brilliant Black	39,454	5,588
82a	Ponceau (V. M.)	20,972	1,931	272b	Wool Black (V. M.)	15,756	3,596
88a	Acid Anthracene Brown (V. M.)	30,555	7,932	274	Diaminogen	205,944	56,201
96a	Chrome Fast Yellow	15,165	3,056	275	Diamond Black	351,582	55,020
102	Diamond Flavine G	23,089	4,226	275a	Chrome Black (V. M.)	72,821	13,616
112	Bordeaux B	10,383	1,474	275c	Chrome Fast Black (V. M.)	35,999	10,532
112a	Claret Red	14,338	1,291	277	Anthracene Acid Black	17,793	2,647
118	Geranine	18,917	6,090	279	Benzo Fast Scarlet	36,674	9,010
126a	Union Blue (V. M.)	15,353	2,116	283	Bismarck Brown	27,576	5,352
132	Lake Red P	40,345	2,019	284	Bismarck Brown 2 R	170,882	31,241
134	Metanil Yellow	284,606	46,614	288	Palatine Chrome Black	18,985	1,607
137	Acid Yellow	35,982	6,313	296	Cotton Yellow	21,437	6,161
139	Orange IV	11,238	1,966	303	Renol Brilliant Yellow	12,786	3,200
140	Curcumeine	39,269	6,257	303a	Paper Yellow (V. M.)	264,443	45,320
141	Azo Yellow	59,894	13,755	304	Chrysophenine	148,406	40,466
141a	Azo Flavine (V. M.)	20,114	3,151	307	Congo	12,040	1,687
141b	Indian Yellow (V.M.)	10,537	2,392	308	Diazo Black	62,854	8,257
145	Orange II	127,550	10,116	312	Congo Corinth	39,748	6,030
146	Azo Fuchsine G	17,819	2,585	313	Congo Rubine	46,113	6,329
147	Azo Fuchsine 6 B	13,206	1,867	319	Diamine Scarlet	28,887	9,027
151a	Orange RO	90,174	7,395	326	Oxy Diamine Violet	11,514	1,938
152	Permanent Red 4 B	44,850	14,513	326a	Benzo Violet R	12,467	1,552
152a	Permanent Red (V. M.)	56,545	7,403	327	Diamine Violet N	13,107	2,840
153	Lake Red C	306,607	9,495	333	Oxamine Black	417,423	57,464
154	Palatine Chrome Brown	18,264	4,674	333b	Diamine Black (V. M.)	171,211	19,634
157	Diamond Black	285,047	37,055	333d	Develop Black	17,495	4,333
159a	Vigoureux Fast Black T	16,000	3,522	334	Diphenyl Blue Black	26,240	4,415
160	Fast Brown N	67,531	6,200	335	Naphthamine Black	47,969	7,132
161	Fast Red A	46,359	5,465	337	Benzo Blue	19,035	789
163	Azo Rubine	160,252	23,409	338	Naphthamine Blue	11,707	2,455
163a	Carmoisine (V. M.)	17,107	2,427	343	Diamine Fast Red	47,724	17,131
163b	Chrome Blue (V. M.)	53,404	19,874	344	Diamine Brown	63,716	12,457
164a	Diamond Blue R	20,117	3,800	346	Oxamine Red	11,636	2,568
168	Amaranth	73,973	9,420	348	Diphenyl Brown BN	13,471	4,015
168b	Wool Red (V. M.)	11,497	2,285	358	Diphenyl Red	12,808	5,001
169	Cochineal Red	29,984	3,669	360	Pyramine Orange R	21,329	7,818
173	Lithol Red R	214,448	18,550	362	Oxydiamine Orange	19,905	4,223
173a	Lithol Red (V. M.)	67,515	5,029	363	Benzopurpurine 4 B	341,724	45,233
174a	Scarlet	209,281	20,472	365	Benzopurpurine (V. M.)	21,090	1,442
177	Mordant Yellow	85,003	11,280	366	Deltapurpurine 5 B	20,284	3,646
177a	Anthracene Yellow	16,050	3,011	370	Brilliant Congo	19,133	3,133
177b	Salicine Yellow	23,068	3,536	384a	Diamine Blue (V. M.)	21,725	3,687
180	Erichrome Blue Black BC	43,880	8,485	392	Toluylene Orange	55,562	13,236
181	Salicine Black U	65,658	10,606	400	Acid Anthracene Red	17,560	5,174
181b	Salicine Black (V. M.)	177,203	26,945	405	Benzopurpurine 10 B	47,708	11,181
183	Eriochrome Black T	129,550	23,447	410	Benzazurine (V. M.)	78,699	21,018
184	Eriochrome Black A	96,570	13,530	416	Brilliant Azurine 5 G	18,395	3,206
185	Anthracene Chrome Black	51,577	7,869	418	Diamine Brilliant Blue G	11,592	2,496
188	Sulphon Acid Blue R	45,038	11,372	419	Chicago Blue RW	15,176	3,364
189	Sulphon Acid Blue B	35,112	8,813	421	Oxamine Blue B	14,091	2,436
198	Thiazine Yellow	29,879	8,410	421a	Oxamine Blue (V. M.)	21,800	8,749
211	Resorcin Brown	13,189	2,549	424	Chicago Blue 6 B	116,560	32,417
212a	Acid Brown (V. M.)	14,705	3,238	426	Benzamine Pure Blue	12,881	5,663
217	Agalma Black 10 B	40,763	7,518	428a	Direct Blue (V. M.)	21,322	5,366
217a	Agalma Black (V. M.)	13,465	2,359	436	Columbia Black	290,902	41,563
217c	Naphthol Blue Black (V. M.)	62,864	8,864	436a	Dianol Black	112,095	12,635
217d	Naphthylamine Black (V. M.)	122,581	12,240	442a	Direct Black (V. M.)	145,738	11,831
217e	Acid Black (V. M.)	47,489	7,547	449	Trisulphon Brown	16,781	5,255
217f	Amido Black (V. M.)	105,005	10,062	455a	Columbia Black (V. M.)	143,956	26,125
217g	Wool Black (V. M.)	23,371	4,866	456	Benzo Fast Blue	73,936	20,607
217h	Acid Wool Black	13,518	4,202	456a	Benzo Fast Blue (V. M.)	26,559	8,439
220	Palatine Black	148,203	15,169	462	Direct Deep Black E. W	32,830	5,032
220a	Amido Acid Black	32,624	3,614	462a	Direct Deep Black E	862,601	116,009
220b	Wool Black (V. M.)	110,244	16,868	462c	Cotton Black (V. M.)	91,485	22,206
227	Brilliant Croceine	123,058	20,333	462d	Union Black (V. M.)	61,218	9,044
236	Wool Red	13,245	1,942				

Serial No.	Commercial name.	Pounds.	Invoice value.
	AZO COLORS—contd.		
462f	Carbide Black (V. M.)		
463	Cotton Black E	190,304	$31,607
469	Chloramine Black	248,567	34,602
469a	Chloramine Black (V. M.)	20,095	5,278
474	Oxamine Green B	19,505	3,951
474a	Diamine Green (V. M.)	23,832	5,134
476a	Benzamine Brown 3 G	53,268	8,318
477a	Naphthamine Brown (V. M.)	16,988	2,470
478	Columbia Green	48,734	9,452
478a	Direct Green (V. M.)	24,749	4,723
485a	Benzo Brown (V. M.)	19,313	4,291
490a	Cotton Brown (V. M.)	41,905	7,125
		23,975	5,297
	UNCLASSIFIED AZO COLORS.		
	[The symbols denoting the manufacturers are enclosed in brackets (cf. p. 39).]		
A6	Chrome Fast Black (V. M.) [A]	76,451	10,172
A12	Columbia Brown (V. M.) [A]	20,793	3,073
A16	Columbia Fast Blue (V. M.) [A]	84,661	18,879
A28	Naphthogene Blue (V. M.) [A]	33,847	6,824
A32	Nerol (V. M.) [A]	65,441	9,751
A44	Solamine Blue B [A]	21,704	8,376
A46	Zambesi Black (V. M.) [A]	629,359	107,669
A69	Corvan Black (V. M.) [B]	10,083	1,870
A71	Cotton Black (V. M.) [B]	24,505	4,843
A81	Lithol Fast Orange R [B]	36,641	4,381
A88	Oxamine Black (V. M.) [B]	50,032	10,472
A95	Oxamine Brown (V. M.) [B]	93,454	22,569
A102	Oxamine Copper Blue RR [B]	10,222	1,941
A104	Oxamine Dark Blue (V. M.) [B]	23,810	4,246
A108	Oxamine Dark Brown G, R [B]	10,599	1,312
A122	Palatine Chrome Blue BB [B]	42,244	4,679
A124	Palatine Chrome Green G [B]	19,665	6,452
A131	Scarlet (V. M.) [B]	80,778	7,281
A142	Wool Scarlet (V. M.) [B]	12,780	1,417
A144	Acid Black E, M [By]	18,660	2,031
A147	Acid Chrome Black (V. M.) [By]	39,508	8,052
A150	Acid Silk Black R [By]	12,928	2,234
A157	Benzo Chrome Black Blue B [By]	51,315	9,804
A166	Benzo Dark Green B, GG [By]	13,038	2,123
A169	Benzo Fast Black L [By]	100,268	22,846
A176	Benzo Fast Heliotrope (V. M.) [By]	13,018	5,541
A184	Benzo Green (V. M.) [By]	16,506	2,850
A191	Benzo Red 10 B, 12 B [By]	19,420	4,715
A203	Benzo Rhoduline Red B, 3 B [By]	11,878	1,813
A210	Brilliant Fast Blue (V. M.) [By]	11,553	3,309
A215	Cashmere Black 3 BN, V [By]	12,269	1,881
A227	Diazo Brilliant Scarlet (V. M.) [By]	38,909	14,210
A242	Diazo Fast Black (V. M.) [By]	29,330	$7,476
A259	Direct Black (V. M.) [By]	12,048	2,019
A266	Helio Bordeaux BL [By]	14,703	793
A277	Orange RO [By]	24,288	2,246
A285	Phenylamine Black 4 B [By]	14,066	1,619
A296	Pluto Black (V. M.) [By]	30,010	6,034
A292	Pluto Brown (V. M.) [By]	14,580	2,542
A303	Alphanol Black (V. M.) [C]	30,189	3,124
A336	Azo Wool Violet (V. M.) [C]	12,944	3,208
A346	Diamine Catechine (V. M.) [C]	66,876	14,942
A351	Diamine Fast Blue (V. M.) [C]	28,880	7,227
A355	Diamine Fast Orange (V. M.) [C]	17,387	4,819
A361	Diamine Jet Black (V. M.) [C]	14,091	4,315
A362	Diamine Neron BB [C]	36,982	6,204
A367	Diamine Orange (V. M.) [C]	17,068	2,851
A368	Diamine Sky Blue FF [C]	41,115	7,574
A382	Oxy Diamine Black (V. M.) [C]	146,629	24,836
A384	Oxy Diamine Brown (V. M.) [C]	23,498	3,810
A385	Oxy Diamine Carbon (V. M.) [C]	34,388	7,864
A387	Oxy Diaminogen (V. M.) [C]	139,118	26,832
A388	Para Diamine Black (V. M.) [C]	18,634	2,690
A396	Cotton Black (V. M.) [K]	300,473	44,567
A403	Salicine Blue B [K]	16,224	8,449
A414	Amido Naphthol Black 4 B, R K [M]	10,750	1,219
A418	Azo Acid Black (V. M.) [M]	19,500	3,042
A430	Fast Mordant Blue B, R [M]	17,000	4,612
A437	Naphthalene Blue B, DL [M]	28,000	5,102
A439	Victoria Scarlet R, 3 R [M]	22,400	2,379
A444	Direct Green (V. M.) [CG]	31,194	5,091
A451	Heligoland Black FFN [CG]	25,132	4,151
A469	Oxychrome Brown (V. M.) [GrE]	10,490	2,235
A472	Oxychrome Yellow (V. M.) [GrE]	10,085	1,985
A478	Triazol Blue (V. M.) [GrE]	10,148	1,580
A485	Triazol Brown (V. M.) [GrE]	17,067	2,854
A489	Triazol Dark Blue (V. M.) [GrE]	19,489	2,647
A515	Brilliant Scarlet 2 R, 4 R [tM]	12,565	1,425
A524	Anthracyl Chrome Blue 2 B, D [tM]	24,979	6,385
A527	Croceine Scarlet MO, MOO [WD]	12,210	2,235
A531	Acid Blue Black [AW]	15,501	3,023
A532	Acid Chrome Blue [AW]	12,952	4,365
A533	Acid Fast Green 8 B [AW]	14,050	7,068
A541	Diazogene Black (V. M.) [AW]	30,042	6,814

UNCLASSIFIED AZO COLORS—continued.

Serial No.	Commercial name.	Pounds.	Invoice value.
	UNCLASSIFIED AZO COLORS—continued.		
A550	Direct Black ABC, C [AW]	15,245	$2,804
A552	Direct Chrome Brown [AW]	12,178	2,665
A556	Drazaline Blue (V. M.) [AW]	10,831	4,425
A566	Drazaline Brown (V. M.) [AW]	21,756	4,979
A593	Drazaline Sky Blue FF [AW]	10,940	5,204
A600	Excelsior Black [AW]	59,956	16,690
A603	Hydrazol Black [AW]	10,981	1,629
A605	Hydrazol Chrome Black CB, DB [AW]	51,694	7,499
A612	Chicago Red III [G]	13,195	2,420
A617	Diphenyl Blue (V. M.) [G]	12,677	3,842
A622	Diphenyl Deep Black (V. M.) [G]	21,098	4,216
A629	Diphenyl Green (V. M.) [G]	18,021	4,667
A664	Chlorantine Brown (V. M.) [I]	18,267	4,034
A674	Chrome Fast Brown (V. M.) [I]	12,204	3,550
A682	Chrome Fast Green (V. M.) [I]	12,943	6,670
A687	Cupranil Brown (V. M.) [I]	24,851	4,859
A692	Direct Black E [I]	22,223	4,205
A696	Direct Fast Black B [I]	11,290	2,790
A711	Azo Rhodine 2 B [S]	10,108	2,624
A719	Direct Sky Blue FF [S]	58,838	12,827
A729	Azomine Milling Black N [CV]	22,500	5,124
	DIPHENYLMETHANE COLORS.		
493	Auramine	449,276	107,887
	TRIPHENYLMETHANE COLORS.		
495	Malachite Green	178,831	43,363
497a	Victoria Green	44,595	10,305
499	Brilliant Green (V. M.)	73,904	16,345
502	Guinea Green	14,666	3,362
502a	Acid Green (V. M.)	35,305	9,379
503	Neptune Green (V. M.)	40,868	13,825
505	Light Green (yellowish) (V. M.)	24,946	5,960
505a	Acid Green (V. M.)	46,461	20,176
506	Erioglaucine (V. M.)	66,526	28,971
512	Magenta	87,102	25,659
515	Methyl Violet	255,063	63,183
516	Crystal Violet	33,653	13,664
516a	Violet (V. M.)	18,219	5,289
517	Benzyl Violet	22,387	6,018
518	Ethyl Purple	51,933	23,101
521	Aniline Blue	50,563	18,586
524	Acid Magenta	19,098	4,030
527	Acid Violet	13,078	4,362
527a	Acid Violet (V. M.)	16,106	5,360
528	Fast Acid Violet 10 B	12,919	3,229
530	Acid Violet	50,055	12,806
530a	Acid Violet (V. M.)	65,395	20,954
530b	Formyl Violet (V. M.)	19,819	4,185
530c	Guinea Violet 4 B, 6 B	18,854	5,114
531	Eriocyanine	25,091	11,987
534a	Acid Violet (V. M.)	19,960	6,310
536	Alkali Blue	286,531	117,365
537a	Navy Blue (V. M.)	31,499	6,275
538a	Cotton Blue (V. M.)	45,019	9,809
539	Soluble Blue	86,523	31,093
543	Patent Blue	114,631	49,945
543c	Acid Blue	14,467	4,916
545	Patent Blue A	40,848	10,229
545a	Neptune Blue (V. M.)	10,765	$2,305
545c	Brilliant Acid Blue (V. M.)	10,120	3,525
546	Cyanol	40,015	15,757
551	Eriochrome Azurol BC	21,070	14,480
	DIPHENYL-NAPHTHYLMETHANE COLORS.		
558	Victoria Blue R	109,627	33,117
564	Naphthalene Green	22,144	5,904
565a	Wool Blue (V. M.)	173,904	18,406
566	Wool Green S	33,963	13,526
566b	Cyanol Green (V. M.)	10,988	2,193
	XANTHONE COLORS.		
571	Rhodamine 6 G	37,460	18,495
573	Rhodamine B	58,339	23,777
576	Rhodamine 3 G	16,940	6,858
580a	Fast Acid Violet (V. M.)	19,811	13,975
587	Eosine	35,511	13,183
587a	Eosine (V. M.)	21,017	7,891
587b	Bromo-fluoresceic Acid	38,000	18,397
590a	Acid Eosine	17,499	7,388
599	Galleine	15,404	8,817
	ACRIDINE COLORS.		
606	Phosphine	101,858	30,442
606c	Patent Phosphine	28,627	17,881
606g	Leather Flavine	24,153	8,235
607	Rheonine	19,704	5,261
608	Euchrysine	15,403	5,343
609b	Diamond Phosphine	30,336	5,897
609e	Corioflavine	40,343	13,438
	QUINOLINE AND THIOBENZENYL COLORS.		
612	Quinoline Yellow (spirit soluble)	79,553	28,170
613	Quinoline Yellow (water soluble)	15,324	7,072
616	Primuline	56,212	8,478
617	Columbia Yellow (V. M.)	86,090	10,165
617a	Diamine Fast Yellow (V. M.)	88,688	12,972
618	Thioflavine T	31,714	17,683
	OXAZINE AND THIAZINE COLORS.		
627	Gallocyanine	78,253	27,227
649	Cotton Blue (V. M.)	32,509	9,675
659	Methylene Blue (V. M.)	185,738	72,619
660	Methylene Green (V. M.)	30,812	13,196
661	Thionine Blue (V. M.)	18,618	7,873
663	New Methylene Blue (V. M.)	30,392	12,127
667	Indochromine (V. M.)	19,060	12,430
	AZINE COLORS.		
672	Azo Carmine	17,500	5,453
679	Safranine (V. M.)	59,921	21,273
681	New Fast Gray (V. M.)	29,507	10,436
697	Induline, soluble in spirit (V. M.)	25,342	5,016
698	Nigrosine, soluble in spirit (V. M.)	186,540	23,435
699	Induline, soluble in water (V. M.)	21,775	5,514
700	Nigrosine, soluble in water (V. M.)	394,718	58,903
705a	Indocyanine B, 2 RF	23,138	5,205

Serial No.	Commercial name.	Pounds.	Invoice value.
	SULPHUR COLORS.		
708	Sulphaniline Brown O, R	11,327	$1,158
710	Immedial Yellow D (V. M.)	13,395	2,266
717	Vidal Black	7,495	525
719	Thional Black G	16,865	2,141
720	Sulphur Black (V. M.)	502,309	54,557
720[A]	Sulphur Black (V. M.)	3,703,979	368,939
720[B]	Kryogene Black (V.M.)	121,904	12,263
720 [By]	Katigene Black (V. M.)	34,699	2,711
720 [By]	Katigene Blue Black 4 BPA	49,310	4,084
720 [By]	Katigene Deep Black B	224,262	19,491
720[C]	Immedial Brilliant Carbon F, FG	113,900	15,197
720[K]	Sulphur Black (V. M.)	323,715	32,084
720[K]	Thion Black (V. M.)	12,817	1,275
720[K]	Thion Violet Black A	19,860	3,471
720[M]	Thiogene Black (V. M.)	83,089	7,034
720 [CJ]	Thiophor Black WLN	10,141	1,424
720 [GrE]	Thioxine Black [V. M].	143,471	11,254
720[G]	Eclipse Black C	2,756	421
720 [I]	Pyrogene Deep Black (V. M.)	13,011	1,724
720 [Lev]	Sulphur Black TR	27,394	1,937
720 [Lev]	Thionol Black S, XX.	6,498	550
720[H]	Cross Dye Black	38,583	4,789
722	Auronal Black (V. M.)	50,879	5,072
724	Immedial Black	51,699	6,193
	Total for all sulphur blacks	5,615,458	558,909
725	Immedial Brown (V. M.)	23,887	2,558
726	Pyrogene Blue (V. M.)	10,934	2,582
730	Pyrogene Black G	8,725	1,140
734	Pyrogene Yellow M, O	18,515	5,102
735	Pyrogene Indigo (V. M.)	22,661	6,652
739	Immedial Maroon B	15,496	2,885
746	Katigene Green (V.M.)	63,929	9,950
748	Hydron Blue G, R	292,729	33,555
750	Kryogene Brown A, G.	10,313	972
	UNCLASSIFIED SULPHUR COLORS.		
83	Sulphur Blue (V. M.)	73,434	15,489
812	Sulphur Brown (V. M.)	79,691	9,505
818	Sulphur Catechu G, R	48,973	5,071
826	Sulphur Indigo (V. M.)	10,488	2,085
837	Katigene Black Brown (V. M.)	11,006	1,336
845	Katigene Brown 2 R, V	22,811	2,452
849	Katigene Direct Blue B, RF	11,299	2,305
851	Katigene Indigo (V.M.)	42,157	5,924
855	Katigene Khaki G	14,242	1,691
858	Katigene Red Brown R, 3 R	68,864	9,386
862	Katigene Yellow G, GG, GR	55,227	9,318
865	Katigene Yellow Brown (V. M.)	36,826	5,617
875	Immedial Direct Blue (V. M.)	73,892	11,145
876	Immedial Indogene (V. M.)	90,077	13,141
878	Immedial New Blue G	37,492	10,016
884	Sulphur Brown	12,735	1,926
886	Thion Brown (V.M.)	18,579	2,824
897	Thiogene Blue (V. M.)	14,344	2,261
	UNCLASSIFIED SULPHUR COLORS—contd.		
S100	Thiogene Brown (V. M.)	97,551	$10,601
S109	Thiogene Deep Blue	13,106	3,049
S155	Pyrogene Brown (V. M.)	63,450	6,689
S168	Sulphur Bronze	15,152	1,392
S177	Cross Dye Drab N	15,758	1,324
	ANTHRAQUINONE AND ALLIED COLORS.		
760	Indanthrene Gold Orange G	20,092	10,088
761	Indanthrene Gold Orange	50,496	2,052
763	Indanthrene Dark Blue BO	11,096	2,516
765	Indanthrene Green B	72,227	16,377
767	Indanthrene Violet RR	68,419	21,516
768a	Indanthrene Black B, BB	50,034	12,876
774	Alizarin Black S, SR, WR	136,461	9,936
774b	Alizarin Black (V. M.)	61,187	19,239
778	Alizarin (synthetic)	202,392	20,465
779	Alizarin Orange (V. M.)	14,239	3,184
780	Alizarin Red	53,154	24,784
780a	Alizarin Red (V. M.)	28,775	3,708
782	Alizarin Brown (V. M.)	110,211	30,907
785a	Alizarin (V. M.)	49,021	5,379
789	Anthracene Blue WR	107,778	13,622
799a	Anthracene Blue (V. M.)	22,444	7,174
800	Anthracene Blue WB, WG	54,712	9,228
803	Alizarin Blue WX, A	16,575	6,453
803a	Alizarin Blue (V. M.)	302,319	69,712
804	Alizarin Blue S	79,679	69,871
804a	Alizarin Blue SB, 942	12,409	6,158
804c	Alizarin Sky Blue B	19,471	24,555
805	Alizarin Green S	15,885	2,497
806a	Alizarin Black (V. M.)	229,500	33,275
807	Alizarin Black S	198,491	19,902
807a	Patent Alizarin Black (V. M.)	61,500	10,049
808	Alizarin Green S	11,096	2,337
808a	Alizarin Green (V. M.)	124,095	58,491
810a	Helindone Yellow CG	20,744	6,954
820	Algol Brilliant Violet R	12,784	3,623
827	Indanthrene Claret B	28,728	9,923
832	Indanthrene Violet RN	11,667	5,181
833	Algol Olive R	13,334	2,850
838	Indanthrene Blue RS	187,379	56,532
841	Indanthrene Blue GGS	10,163	4,284
842	Indanthrene Blue GCD paste	478,980	169,780
849	Indanthrene Yellow G, GP	12,683	4,353
849a	Indanthrene Violet Yellow GP	62,509	20,738
850a	Indanthrene Blue WR	31,658	4,272
851a	Alizarin Direct Blue (V. M.)	10,201	11,878
856a	Alizarin Rubinol R	10,917	11,826
859	Cyananthrol R	18,792	27,555
862	Alizarin Blue Black B, 3 B	54,706	61,370
	INDIGO AND ITS DERIVATIVES.		
874	Indigo, synthetic	8,507,359	1,090,773
877	Indigo Extract	19,329	6,577
879	Indigo MLB	53,610	11,604
881	Ciba Blue 2 B	16,880	7,423

Serial No.	Commercial name.	Pounds.	Invoice value.
	INDIGO AND ITS DERIVATIVES—continued.		
886	Brilliant Indigo GD	12,057	$1,747
888	Indigo MLB, T	12,730	1,598
901	Ciba Violet B	19,830	6,975
904	Helindone Brown G	12,936	6,710
907	Ciba Scarlet G	22,265	11,479
910	Helindone Pink (V. M.)	39,393	47,117
913	Helindone Orange R	14,489	5,841
918	Helindone Red 3 B	27,874	10,942
920	Helindone Violet B, 2 B, R	28,607	15,945
923	Ursol	53,720	15,779
	UNCLASSIFIED COAL-TAR COLORS.		
	[The following dyes include imported artificial colors, the composition or manufacture of which are not known, and which have not been mentioned among the unclassified azo colors and sulphur colors.]		
U20	Guinea Bordeaux (V. M.) [A]	23,252	3,233
U24	Indo Violet BF [A]	23,060	4,647
U27	Metachrome Blue B, G [A]	14,301	3,996
U31	Metachrome Brown BL, BRL [A]	57,313	7,271
U61	Scarlet 53446 [A]	13,344	1,246
U64	Amine Black (V. M.) [A]	146,163	14,390
U78	Chrome Fast Blue 4 B [A]	23,585	5,198
U86	Columbia Fast Black (V. M.) [A]	82,040	15,756
U100	Basic Kraft Brown Y 2 [B]	11,235	2,039
U109	Brilliant Scarlet (V. M.) [B]	23,382	2,588
U121	Corvoline BT [B]	10,789	3,241
U138	Fast Acid Marine Blue HBBX [B]	25,567	6,212
U145	Japan Black (V. M.) [B]	13,974	2,766
U151	Jet Black APX, RR [B]	19,442	4,779
U155	Kraft Brown L, Y 2 [B]	43,807	10,218
U158	Leather Black BO, CR [B]	16,433	4,843
U163	Oil Black 6 B, 6 G, HG [B]	28,603	4,258
U180	Pigment Black [B]	22,448	926
U183	Quercitron Substitute WBL, V [B]	16,812	2,422
U192	Thiazine Brown R [B]	12,105	2,809
U206	Acid Chrome Blue 3 G, 2 R, 5 R [By]	25,633	6,553
U217	Blue 27071 [By]	14,775	994
U238	Claret Lake BL [By]	15,290	949
U246	Half Wool Blue 3 R [By]	20,610	3,790
U271	Wool Fast Blue BL, GL [By]	19,238	6,331
U279	Brilliant Lanafuchsine (V. M.) [C]	11,289	1,757
U283	Brilliant Scarlet (V. M.) [C]	41,082	$4,317
U290	Leather Black (V. M.) [C]	11,784	3,063
U293	Nerazine G, GA [C]	44,676	8,484
U304	Acid Red (V. M.) [C]	30,099	6,238
U321	Carpet Red B, BT, R [K]	15,445	1,649
U329	Cotton Brown (V. M.) [K]	15,079	4,959
U332	Cotton Marine Blue 4676 [K]	79,035	10,902
U333	Cotton Orange (V. M.) [K]	21,665	5,116
U335	Direct Black (V. M.) [K]	42,277	8,438
U336	Direct Blue (V. M.) [K]	57,224	14,318
U337	Direct Brown (V. M.) [K]	21,828	4,799
U361	Naphthamine Fast Black SE, SDE, VE [K]	34,203	10,671
U378	Paper Scarlet (V. M.) [K]	24,372	3,101
U385	Scarlet (V. M.) [K]	29,634	3,363
U390	Wool Black (V. M.) [K]	118,791	20,453
U391	Wool Blue (V. M.) [K]	23,020	6,854
U393	Wool Brown (V. M.) [K]	40,736	6,333
U394	Wool Cerise SR [K]	16,088	2,359
U395	Wool Green [K]	20,255	5,488
U397	Wool Violet R, SL [K]	12,584	3,429
U399	Wool Yellow (V. M.) [K]	17,465	2,629
U423	Alizarin Pure Blue DPH [M]	31,000	7,349
U440	Hansa Yellow G, 5 G, R [M]	11,014	4,559
U460	Paratol Chrome Yellow L [M]	17,336	1,238
U465	Paratol Scarlet 3 B [M]	41,000	8,271
U470	Rosazeine B, B 5, 6 G [M]	17,500	8,536
U510	Cresol Black (V. M.) [GrE]	37,322	4,246
U526	Chrysolarine A [tM]	15,756	6,575
U553	Black BH, HB [AW]	21,239	4,789
U570	Developed Black B, N, R, W [AW]	36,475	9,501
U610	Erio Violet BC, RLC [G]	21,345	6,117
U682	Sepia Black FW [I]	10,527	2,367
U687	Solfigene Deep Black (V. M.) [I]	61,949	9,509
U695	Blue (V. M.) [S]	13,657	3,627
U701	Calcutta Blue 2 [S]	26,669	4,669
U708	Meridian Black AE, AN [S]	15,157	3,316
U711	Omega Chrome Cyanine R [S]	21,001	3,019
U716	Alpha Black JC, 6 BN [CV]	12,100	2,949
U731	Cachou (V. M.) [Lev]	56,991	3,430
U744	Alizadine Black M [H]	18,979	1,986
U799	Black (V. M.) [H]	138,805	14,781
U770	XL Blue (V. M.) [H]	10,047	2,126
	UNCLASSIFIED COAL-TAR COLORS—contd.		

PRICES OF DYES.

The values of the different colors imported from Europe are taken directly from the invoice entries. The prices varied but little during the course of the fiscal year 1913–14. They are on file in the Bureau of Foreign and Domestic Commerce. It did not seem necessary to reproduce them in full in the enumeration of colors. The average price for the year, in the case of any dye imported under a variety of marks or designations, is easily ascertained by a simple act of division.

In most cases the values stated represent the lowest possible estimate of wholesale cost which can be placed upon the wares in question. The bulk of the importations is shipped from the great manufacturing firms of Germany, Switzerland, and England to their agents in this country. The latter are ordinarily incorporated American companies, bearing essentially the same names as the European houses which they represent, and some are practically under the control of the latter, if not financed by them directly.

Under these circumstances and in view of the exceptional difficulty of ascertaining market prices for the highly differentiated gradations of quality in the thousands of brands of artificial colors, there is a strong temptation to place the lowest possible estimate of value upon wares subject to an ad valorem duty of 30 per cent.

It is doubtful in some cases, therefore, whether the values published in the following lists are fully equal to those against which American manufacturers of colors would contend, should all the factors falling under the head of "unfair competition" be eliminated in the international trade in synthetic dyes.

In these values there is a slight element of variability and uncertainty, based upon the lack of uniformity in invoicing colors. In some cases—probably the majority—the prices and values are net, not covering charges for containers and packing, freight and insurance to seaport, consular certification, minor shipping charges at point of departure and at seaport. Wares shipped by the "Badische Co.," the Berlin "Actien-Gesellschaft," the "Cassella Co.," the "Griesheim-Elektron," and the "Chemikalienwerk-Griesheim" are usually invoiced in this manner.

Other firms, such as the "Bayer Co.," the "Sandoz Co.," "Carl Jäger," and "Beyer & Kegel," include in their prices the cost of containers and packing, freight and insurance to seaport, consular certification, and minor shipping charges. In other words, their prices are f. o. b. ocean steamers at Hamburg, Bremen, Rotterdam, Antwerp, etc.

It has not been possible, on account of time limitations, to estimate this small factor in the case of each shipment and make the accompanying correction in value so as to have actual uniformity in the basis of valuation. The element of quantity is the dominant feature in this work, and in view of what is stated above, very elaborate calculations in this connection would be of doubtful utility.

COST OF PACKING, FREIGHT, INSURANCE, ETC.

It is well, however, to know with some approximation to exactness the extent and nature of the charges incident to the importation of European coal-tar colors into the United States. They are as follows:

1. *Consular certification.*—A fee of $2.50 for all invoices covering shipments the value of which exceeds $100.

2. *Freight to seaport.*—This is quite variable, depending upon the distance to be traversed and whether rail or water transportation is employed. Rates per pound (net) of color are $0.00125 from Berlin; $0.0056 to $0.0071 from Basel; $0.0008 to $0.00216 for points on the Rhine.

3. *Insurance, in transit to seaport.*—Rates vary from $0.0007 to $0.0016 for each dollar of invoice value.

4. *Shipping charges.*—The item appears occasionally. It ranges from $1 to $2 for each $1,000 of an invoice.

5. *Ocean freight.*—Customary rates from European ports, such as Hamburg and Antwerp to New York, were, prior to the war, $9.75 per metric ton, gross weight, for most of the coal-tar dyes, and $7.91 for certain categories, such as sulphur black and other sulphur colors.

Several large invoices of colors showed an average rate for ocean freight per net pound of dyestuff, of $0.00471, ranging from $0.004125 to $0.00539. Through freight from Frankfort to New York on a large and varied assortment of artificial dyes was at the rate of $0.00755 per net pound of colors.

On an average, 1 pound of color, net, is represented by 1.165 pounds gross weight; the tare per pound ranging from 0.155 to 0.174 pound on shipments of some size.

6. *Marine insurance.*—Insurance on large shipments of dyes from Frankfort to New York, covering both inland and marine insurance, was equivalent to $0.000916 per net pound of colors. This represented $0.00497 on each dollar of value, or about one-half of 1 per cent on the value. Shipments by another company, located on the Rhine, averaged one-third of 1 per cent.

7. *Packing.*—There is some diversity in the average cost of containers. This item ranges from $0.00459 to $0.00863 per net pound of color in a number of large invoices. A fair average would be $0.00651 per net pound.

Some of the more expensive colors are shipped in tin boxes, packed in cases holding 100 pounds, net. Cases cost $0.48. The charges for tins are as follows: 1 pound, 4.8 cents; 5 pounds, 9.6 cents; 10 pounds, 15.5 cents; 25 pounds, 32 cents. Kegs, containing 100 pounds, cost usually $0.95, but range in value from $0.63 to $1.14. Casks hold ordinarily about 500 pounds. The net contents range, however, from 415 to 595 pounds. In four large shipments the average net weights were 442, 469, 480, and 531 pounds. The general average was 480 pounds. The average price of casks is $1.90. They range, however, in cost from $1.55 to $3.24.

On an average the importation of European colors to New York costs $0.014 per net pound for packing and transportation (packing $0.0065, transportation $0.0075), and $7 per $1,000 of value for insurance and incidental charges (insurance $5, shipping charges and consular certification $2).

American consumers of coal-tar colors, who may wish to compare the prices paid by them two or three years ago for European wares with the prices based upon the values furnished in this report, can add to the prices calculated from these values the cost of the above items. In addition there comes the duty of 30 per cent ad valorem

on all artificial colors, except indigo and its derivatives, and colors made from anthracene (chiefly alizarin) and carbazole, which were exempt from duty under the tariff of October 3, 1913. This duty is levied upon the combined cost of a dye and its containers. Furthermore, the normal cost of handling, storing, and distributing, in the importing houses, is to be added. The difference between the sum total of these various items and the current price for a given color, represents the profit made by the importer.

ARTIFICIAL COLORS MANUFACTURED IN THE UNITED STATES.

The manufacture of coal-tar colors in the United States has been in existence for some 37 years. Prior to 1915 it had never become a factor of importance in supplying the American market. The reasons for this slowness of development have been presented in detail in the monograph published in 1915 by the Bureau of Foreign and Domestic Commerce, entitled "Dyestuffs for American Textile and other Industries" (Special Agents Series No. 96).

The American manufacture was confined almost entirely to the "assembling" into finished dyes of coal-tar intermediates imported from Europe, chiefly from Germany. In its entirety it represented less than one-tenth of the activity to be encountered in any one of the larger companies producing synthetic colors in Germany and Switzerland

STATUS OF THE DOMESTIC PRODUCTION IN 1914.

The status of the industry for the calendar year 1914, is shown by the following tabular statement prepared by the Bureau of the Census:

Number of establishments	7
Persons engaged in manufacture	528
Salaried employees	130
Wage earners (average number)	398
Primary horsepower	1,376
Capital	$3,386,212
Services	$529,070
Salaries	$273,633
Wages	$255,437
Materials	$1,936,982
Value of products	$3,596,795
Coal-tar colors—	
Pounds	6,619,729
Value	$2,470,096
All other	[1] $1,126,699
Value added by manufacture	$1,659,813

The scope and extent of the manufacture carried on prior to the war by the seven American companies engaged in this branch are summarized under their respective names. No attempt has been made to estimate the annual output of the individual colors made in the American factories, as it fluctuated largely from year to year.

In nearly all cases the character of the manufacture has been vastly affected by the conditions prevailing since 1914. As a rule the variety of colors has been diminished while the output has been vastly augmented.

[1] Includes medicinal coal-tar products valued at $174,508.

The number of employees has been notably augmented. In general, it has been quintupled. In one case the force is 50 times greater than in 1914.

THE SCHOELLKOPF ANILINE & CHEMICAL WORKS (INC.).

This firm, located at Buffalo, N. Y., was founded in 1879, and is the oldest American company in this industry. A number of dyestuffs in current use originated in its laboratories. It has shown a commendable degree of enterprise in maintaining its position for over a third of a century, frequently under conditions of a most discouraging nature. It has also earned the grateful recognition of a multitude of American consumers of dyes by swiftly enlarging the capacity of its works so as to alleviate materially the severity of the dyestuff famine to which our textile and allied interests have been exposed during the past two years.

The annual output of this firm constituted about one-half of the American production of coal-tar dyes. The following colors were currently manufactured before the war. The serial numbers correspond to those given in Schultz's "Farbstofftabellen:"

STILBENE AND PYRAZOLONE DYES.

9. Direct Yellow F.
9. Direct Yellow 2 RF.
23. Wool Yellow extra conc.

AZO DYES.

31. Oil Yellow A.
32. Oil Yellow 2625.
33. Chrysoidine Y extra.
33. Chrysoidine crystals.
34. Chrysoidine 3 R.
36. Oil Orange 2311.
36a. Oil Yellow 2338.
37. Croceine Orange Y.
38. Crystal Orange 2 G.
64. Buffalo Fast Crimson G.
66. Buffalo Fast Crimson R.
68. Oil Yellow 2681.
70. Croceine Orange R.
82. Xylidine Scarlet.
83. Cumidine Scarlet.
94. Buffalo Flamine B.
95. Buffalo Flamine G.
105. Sudan Brown S.
110. Buffalo Rubine.
112. Azo Bordeaux.
126. Indoine Blue.
134. Metanil Yellow.
141. Azo Yellow.
141. Azo Yellow A 5 W.
143. Resorcin Yellow.
145. Orange A.
147. Buffalo Fast Fuchsine B
151. Orange R.
161. Fast Red conc.
161. Fast Red S conc.
163. Azo Rubine extra.
168. Wool Red 40 F.
169. Brilliant Scarlet 3 R.

AZO DYES—continued.

188. Buffalo Fast Blue R.
189. Buffalo Fast Blue B.
211. Resorcin Brown.
211. Leather Orange.
217. Buffalo Black NB.
220. Buffalo Black PY extra.
227. Croceine Scarlet MOO.
257. Buffalo Cyanine R.
257. Buffalo Cyanine 3 R.
261. Buffalo Black 8 B, 10 B, R.
266. Buffalo Black AD.
268. Buffalo Black EA.
269. Buffalo Black 4 B.
272. Buffalo Black 2 B.
275. Buffalo Chrome Black BWN.
283. Bismarck Brown Y.
284. Bismarck Brown 53.
303. Brilliant Yellow C.
307. Congo Red 4 B.
311. Erie Orange 2 R.
312. Buffalo Direct Garnet R.
313. Buffalo Direct Crimson B.
320. Bordeaux extra.
326. Niagara Violet 2 B.
326. Niagara Blue R.
327. Niagara Violet 3 R.
333. Diazine Black H extra.
336. Niagara Blue GW, HW, RW.
337. Niagara Blue B, 2 B.
342. Buffalo Direct Yellow CG extra.
343. Niagara Fast Red FD.
344. Erie Direct Brown 3 RB.
362. Buffalo Direct Orange R.
363. Buffalo Direct Red 4 B.
375. Buffalo Direct Violet 4 R.
386. Niagara Blue BR.
392. Buffalo Direct Orange Y.
394. Buffalo Direct Yellow CRR extra.
405. Buffalo Direct Cardinal 7 B.

AZO DYES—continued.

410. Buffalo Direct Blue G extra.
424. Niagara Blue 6 B.
426. Niagara Blue 4 B.
436. Panama Black R extra.
436. Panama Black 3 G extra.
441. Niagara Black Blue R.
462. Erie Direct Black G extra
463. Erie Direct Black R extra
464. Erie Direct Green ET.
464. Erie Direct Green WT.
474. Erie Direct Green MT.
477. Erie Direct Brown GR.
477a. Erie Direct Brown GB.
488. Erie Direct Brown RF, 2 RF.

TRIPHENYL-METHANE DYES.

512. Fuchsine.
512. Fuchsine TR.
513. Fuchsine NB.

TRIPHENYL-METHANE DYES—continued.

521. Spirit Blue, red shades.
521. Spirit Blue, green shades.
524. Acid Magenta.
536. Alkali Blue, red shades.
536. Alkali Blue, green shades.
537. Paper Blue, red shades.
537. Paper Blue, green shades.
537. Paper Blue 6 G super.

XANTHONE DYES.

587. Eosine.

AZINES.

679. Safranine Y extra.
680. Safranine 6 B.
684. Brilliant Safranine R.
699. Nigrosines from aniline (Induline).
700. Nigrosines from nitrobenzol.

THE HELLER & MERZ CO.

This firm, located at Newark, N. J., stands second in point of seniority and importance. Its annual output of coal-tar colors was estimated at slightly less than one-quarter of the country's production. It has catered very largely to the needs of the paper trade. In addition to organic dyestuffs, it has manufactured large quantities of mineral colors, notably ultramarine. The equipment for the production of coal-tar dyes has been largely augmented during the past year.

The following artificial colors were currently manufactured in 1914 (serial numbers of Schultz's "Farbstofftabellen"):

AZO DYES.

33. Chrysoidine.
145. Orange II.
283. Bismarck Brown.

TRIPHENYL-METHANE DYES.

512. Fuchsine.
515. Methyl Violet.
536. Alkali Blue.
537. Soluble Blue.

TRIPHENYL-METHANE DYES—continued.

538. Methyl Blue.
539. Acid Blue.

ANTHONE DYE

587. Eosine.

AZINES.

698. Nigrosine, spirit soluble.
700. Nigrosine, water soluble.

THE BAYER CO. (INC.).

This company owns works at Rensselaer, N. Y., where several of the staple colors and medicinal products of the Farbenfabriken vormals Friedr. Bayer & Co., of Leverkusen, Germany, are manufactured on a scale of some importance. The output of coal-tar dyes prior to the war constituted somewhat less than one-fifth of the country's production. The expansion during the past year and a half has not been as pronounced as in the case of the other establishments.

Prior to the war the company manufactured the following colors:

AZO DYES.

33. Chrysoidine.
283. Bismarck Brown.

TRIPHENYL-METHANE DYES.

512. Fuchsine.
536. Alkali Blue.
537. Soluble Blue.

AZINES.

698. Nigrosine, spirit soluble.
699. Induline.
700. Nigrosine, water soluble.

W. BECKERS ANILINE & CHEMICAL WORKS (INC.).

This company, founded in 1912, is located at Brooklyn, N. Y. Prior to the war it specialized on alizarin substitute colors. The annual output was modest, estimated at about 180 tons. During the past 18 months the plant has been rapidly enlarged. To-day it is second in importance as a factor in the domestic industry.

The following colors were manufactured regularly prior to 1915:

AZO DYES.

48. Alizarin Yellow FF.
83. Ponceau 3 R.
145. Orange II.
163. Azo Rubine WB.
166. Fast Red A.
188. Acid Fast Blue SR.
189. Acid Fast Blue SB.
217. Acid Black 10 B.
333. Diazo Black BHN.
337. Direct Blue WBB.

AZO DYES—continued.

342. Direct Yellow WB.
410. Benzazurine WB.
426. Direct Sky Blue B.

XANTHONE DYES.

599. Chrome Blue R, paste and powder.

OXAZINE DYES.

626. Chrome Blue B, paste and powder.

THE CENTRAL DYESTUFF CO.

This company, located at Newark, N. J., was founded in 1898. The output was not large; possibly 4 per cent of the country's production. It included, however, several dyes of importance for the textile industries. The plant has been notably enlarged during the past year.

Prior to the war the following colors were currently manufactured:

AZO DYES.

31. Amido-azo-benzene.
33. Chrysoidine.
37. Croceine Orange.
68. Amido-azo-toluene.
112. Bordeaux B.
145. Orange II.
161. Fast Red.
163. Azorubine.
168. Amaranth.
174. Scarlet.
223. Sudan III.
232. Sudan IV.
283. Bismarck Brown.

AZINES.

697. Induline.
698. Nigrosine.

THE CONSOLIDATED COLOR & CHEMICAL CO.

This company, located also at Newark, N. J., manufactured for some years prior to the war less than 100 tons annually of colors. The following dyes for textile works were currently produced:

58. Alizarin Yellow R.
168. Fast Red.
144. Naphthol Orange.

In addition, a small variety of colors for pigments, especially alizarin, para, and scarlet lakes, and for use in paper making were regularly manufactured. During the past year the plant has been greatly enlarged. It is at present an important center of production.

HUB DYESTUFF & CHEMICAL CO.

This company, located at South Boston, Mass., manufactured on a modest scale, for a few years prior to 1915:

58. Alizarin yellow R.

IMPORTATION OF COAL-TAR CRUDES AND INTERMEDIATES.

As stated above, the synthetic colors manufactured in the United States prior to 1915 were made almost exclusively from intermediate coal-tar products imported from Europe. Germany was the chief source. A considerable amount, however, was of British origin.

A single noteworthy exception is found in the case of aniline. The American manufacture of this all important intermediate was organized in 1910. The annual output had attained about 900 short tons in 1914—the product of a single establishment. At present aniline is regularly manufactured by over 30 companies and the annual output is in excess of 16,000 short tons.

In connection with the preceding enumeration of the artificial dyes currently produced in the United States prior to the war, it is of considerable importance to know what coal-tar crudes and intermediates were imported for use in their manufacture and, further, the quantity and value of each crude and intermediate. This information is furnished in the following tabular statement based upon the importations for the fiscal year ending June 30, 1914:

IMPORTS OF COAL-TAR CRUDES, FISCAL YEAR 1913–14.

	Pounds.	Value.		Pounds.	Value.
Benzene	131,211	$4,247	Phenol (carbolic acid)	8,393,216	$531,535
Toluene	199,088	7,892	Phenol, ref.	.....	109,146
Xylene	30,681	1,722	Cresol	404,361	16,139
Naphthalene	3,880,108	70,428	Creosote oil	[a]59,271,677	3,822,919
Anthracene and anthracene oil	.....	32,175	Total	.....	4,596,203

[a] Gallons.

An exceedingly small part of the above-mentioned products was utilized in the manufacture of artificial colors. The creosote oil was employed in the preservation of timber. The phenol served chiefly as a disinfectant and antiseptic. The chief use of naphthalene was in the familiar form of "moth balls."

During the calendar year 1913, according to official German records, the following coal-tar crudes were imported into the United States from Germany: Naphthalene, 798 short tons; carbolic acid (pure and crude), 1,320 short tons; cresol, 220 short tons; creosote oil, 17,600 short tons.

IMPORTS OF COAL-TAR INTERMEDIATES, FISCAL YEAR 1913–14.

[NOTE.—The values given are net invoice values of European manufacturers and do not include cost of containers, etc.]

Intermediates.	Pounds.	Value.
NITRO COMPOUNDS.		
Nitro-benzene	1,087,911	$59,835
Dinitro-benzene	164,650	10,399
Nitro-toluene	6,670	359
o-Nitro-toluene	42,482	2,969
Dinitro-toluene	547,701	36,660
Trinitro-toluene	57,242	13,242
α-Nitro-naphthalene	2,247	165
m-Nitraniline	3,527	1,037
p-Nitraniline	506,931	67,638
Methyl-nitraniline	500	135
Nitro-toluidine	10,874	3,415
m-Nitro-p-toluidine	10,513	4,200
o-Nitro-p-toluidine	20,737	6,524
p-Nitro-o-toluidine	30,642	9,723
p-Nitro-phenol	4,780	774
CARBOXYLIC ACIDS.		
Benzoic acid	278,896	51,701
Phthalic acid	63,574	15,597
Tetrachloro-phthalic acid	1,102	659
Ethyl-p-toluene-sulphonic ester	21	19
PRIMARY AMINES AND DERIVATIVES.		
Aniline oil	1,444,772	116,628
Aniline salts	3,083,467	222,728
Acetanilide	1,060	164
p-Amido-acetanilide	5,568	1,365
p-Sulphanilic acid	4,477	257
Toluidine	108,835	14,161
o-Toluidine	309,595	27,361
m-Toluidine	174	25
p-Toluidine	24,686	4,764
Xylidine	18,600	2,167
p-Phenetidine	33,093	11,925
Naphthylamine	25,573	2,705
α-Naphthylamine	112,226	10,620
Naphthylamine-sulphonic acid (constitution unknown)	500	161
α-Naphthylamine sulphonic acid (L acid; 1.5)	2,832	497
α Naphthylamine-sulphonic acid (Cleve's acid; 1.6 or 1.7)	5,493	711
α-Naphthylamine-disulphonic acid (Freund; 1.3.6)	5,246	604
β-Naphthylamine	5,073	997
β-Naphthylamine-α-sulphonic acid (α or Badische acid)	23,265	7,579
β-Naphthylamine-β-sulphonic acid (β or Brönner's acid)	2,316	495
β - Naphthylamine - disulphonic acid (α or R acid; amido-R-salt; 2.3.6)	46,267	4,495
β - Naphthylamine - disulphonic acid (γ or G acid; amido-G-salt; 2.6.8)	3,603	230
SECONDARY AMINES AND DERIVATIVES.		
Dimethyl-aniline	48,642	7,045
Diphenylamine	55,556	9,042
Ethyl-α-naphthylamine	1,102	338
Ethyl-β-naphthylamine	375	190
Phenyl-α-naphthylamine-8-sulphonic acid	9,139	2,860
p-Tolyl-α-naphthylamine-8-sulphonic acid	1,097	568
DIAMINES AND DERIVATIVES.		
Phenylene-diamine	37,907	7,704
p-Phenylene-diamine	11,088	3,414
DIAMINES AND DERIVATIVES—continued.		
m-Toluylene-diamine	133,355	$25,582
m-Toluylene-diamine-sulphonic acid (1.2.4.6)	2,277	835
Benzidine	55,245	16,991
Dianisidine	10,656	4,217
PHENOLS AND DERIVATIVES.		
Salicylic acid	18,821	4,425
Acetyl-salicylic acid	22,841	11,873
Resorcin	61,624	18,175
Hydroquinone	66,596	25,140
Pyrogallol	23,615	20,476
Gallic acid	61,635	20,429
Naphthols (α and β)	70,469	4,193
α-Naphthol	44,089	2,271
α-Naphthol-5-sulphonic acid (L or Cleve's acid; 1.5)	25,126	5,026
α-Naphthol-3.6.8-trisulphonic acid (1.3.6.8)	6,443	1,344
β-Naphthol	1,030,268	74,238
β-Naphthol-monosulphonic acid (constitution unknown)	32,852	5,998
β-Naphthol-7-sulphonic acid (F salt; 2.7)	1,996	382
β-Naphthol-6.8-disulphonic acid (G acid; 2.6.8)	11,624	1,404
1.8-Dioxy-naphthalene-4-sulphonic acid	2,178	1,056
β-Oxy-naphthoic acid	2,359	972
β-Oxy-naphthoic anilide (Naphthol AS)	1,997	1,218
AMIDO-PHENOLS AND DERIVATIVES.		
Sodium picramate	5,207	1,485
Oxy-nitraniline	200	32
o-Amido-phenol	625	223
p-Amido-phenol	10,631	1,684
p-Amido-phenol hydrochloride	652	189
Diamido-phenol	441	391
p-Amido-salicylic acid	9,188	2,996
Methyl-p-amido-phenol sulphate	10,582	13,658
1.8-Amido-naphthol-3.6-disulphonic acid (H acid; 1.8.3.6)	96,296	22,168
2.5-Amido-naphthol-7-sulphonic acid	1,153	445
ALDEHYDES AND QUINONES.		
Benzaldehyde	12,950	2,757
Oil of bitter almonds (benzaldehyde)	7,525	21,954
Anthraquinone	25,193	4,676
DEVELOPERS, REDUCERS, AND INDICATORS.		
Fast Blue Developer AD (amido-diphenylamine)	100	39
Oxamine Developer H	11,096	2,119
Orange Developer R	701	376
Developer Z (phenyl-methyl-pyrazolone)	1,397	377
Phenol-phthalein	14,076	14,090
Total	10,165,896	1,082,775

SUMMARY OF IMPORTS OF COAL-TAR PRODUCTS, 1913-14.

The coal-tar crudes and intermediates listed above, with the exception of aniline oil and salts, several acids, such as carbolic acid and salicylic acid, alizarin and colors derived from alizarin, anthracene and carbazole, indigo and its derivatives, and a few other compounds, such as antipyrine, aspirine, saccharin, and phenolphthalein, are included in the following summarized statement of the imports for consumption into the United States of coal-tar products, for the fiscal year ending June 30, 1914, published by the Bureau of Foreign and Domestic Commerce.

[Imports designated by an asterisk (*) are for the period July 1 to October 3, 1913. Those designated by a dagger (†) are for the remainder of the fiscal year.

Coal-tar products.	Rate of duty.	Value.
Anthracene and anthracene oil	Free†	$32,175.00
Colors or dyes, n. s. p. f.	30 per cent	7,537,869.55
Do. (for use of the United States)	Free	54.00
Dead or creosote oil (59,271,677 gallons)	Free	3,822,919.00
All other, not medicinal and not colors or dyes, known as benzol, toluol, naphthalin, xylol, phenol, cresol, toluidine, xylidin, cumidin, binitrotoluol, binitrobenzol, benzidin, tolidin, dianisidin, naphthol, naphthylamin, diphenylamin, benzaldehyde, benzylchloride resorcin, nitrobenzol, and nitrotoluol; naphthylaminsulfoacids, naphtholsulfoacids, and amidonaphtholsulfoacids and their sodium or potassium salts; amidosalicylic acid, binitrochlorbenzol, diamidostilbendisulfoacid, metanilic acid, paranitranilin, and dimethylanilin.	Free*	288,799.00
Distillates, n. s. p. f., not medicinal and not colors or dyes, benzol, naphthol, resorcin, toluol, xylol.	5 per cent†	138,636.00
Not medicinal and not colors or dyes, known as toluidine, xylidin, cumidin, binitrotoluol, binitrobenzol, benzidin, tolidin, dianisidin, naphthylamin, diphenylamin, benzaldehyde, benzyl chloride, nitro-benzol, and nitrotoluol; naphthylaminsulfoacids, naphtholsulfoacids, and amidonaphtholsulfoacids and their sodium or potassium salts; amidosalicylic acid, binitrochlorbenzol, diamidostilbendisulfoacid, metanilic acid, paranitranilin, and dimethylanilin.	10 per cent†	398,996.00
Do. (for use of the United States)	Free	40,741.00
Naphthalene, phenol, and cresol	Free†	195,713.00
All preparations of, not colors or dyes, and not medicinal, n. s. p. f.	20 per cent*	162,864.00
All other products or preparations of, not colors or dyes, n. s. p. f.	15 per cent†	496,548.13
Do. (for use of the United States)	Free†	18,662.00
Total coal-tar products	Free	4,398,483.00
	Dutiable	8,734,913.68

IMPORTS OF INTERMEDIATES FROM GERMANY.

The official records of exports of intermediates from the German Empire to the United States show that the following quantities were shipped during the calendar year 1913:

	Short tons.
Aniline oil and salts	2,640
Naphthol and naphthylamine	660
Anthraquinone, nitrobenzene, phthalic acid, resorcin, toluidine, etc	1,067
Benzoic acid, salicylic acid, and their sodium salts	297
Total	4,664

THE MARKS OF COAL-TAR COLORS.

The great diversity of marks employed by the different manufacturers of artificial dyes is a source of confusion and bewilderment to many, especially to those in the United States now taking an active interest in the evolution of a domestic coal-tar chemical industry and but slightly familiar with the commercial features of this most complicated of all the varied branches of technology. As the subject has never been treated to any extent in the literature devoted to this industry, it seems desirable to furnish some information of a general character as prefatory to the main portion of this work.

Several of the managers and chemists of the leading firms in New York City, devoted to the sale in this country of the dyes enumerated

further on, have kindly responded to inquiries in this connection The following excerpts from their letters furnish a fairly good portrayal of the few conventional features, and the general lack of uniformity characterizing the use of marks for coal-tar colors:

The customary designation of dyestuffs as practiced by the manufacturers, their representatives, and the free-lances in the dyestuff business, does not appear to be governed by any set formula. In the early days of the artificial-dyestuff industry, when dyes were few, the manufacturers designated distinct differences in shade by the letters B, R, and G, signifying blue, red, and yellow (gelb). Our French confrères used the corresponding B, R, J (jaune), and V (vert), which became familiar to dyers and dyestuff users. As dyes multiplied, differences in shade became more numerous and it became necessary to alter or to augment, as the case might be, the distinguishing marks. Consequently the marks 2 B, or 2 R, or 2 G, etc., became common and continue to this day.

No uniformity, however, exists between the corresponding marks of different concerns. For example, Chicago Blue 6 B, the lightest and brightest of the substantive blues, is designated in the schedule of another firm as 7 B, while among the products of still another firm it is indicated as FF.

Such marks serve to distinguish in a great measure the brands of different houses. One skilled in the art of buying and selling dyestuffs can, without great difficulty, distinguish a competitor's types among a variety of designations.

As far back as 1888 I went into this matter of type designations, discussed it with prominent dye agents, and was supplied by them at the time with comprehensive lists of their dyes and the meaning of their distinguishing letters. These demonstrated conclusively that each firm selling dyes was a law unto itself, so far as the commercial designation of its products was concerned.

Many individuals in and out of the textile industry and dabblers in tinctorial chemistry have entertained the idea that there was a key to a prescribed code of type designations which, in the hands of one possessing it, would unlock the numerous combinations of dyes required by individual customers, but this is not so.

We have, for example, a familiar instance of one of the smaller dyestuff firms, which designates its dye mixtures by numbers preceded by letters. These letters indicate the mixture books, Volume A, Volume B, Volume C, etc., and the number is that of the mixture. In order to duplicate the mixture, as in the case of a physician's prescription, one simply goes to the volume indicated by the letter and picks out the corresponding number. For all time that number holds good for one particular customer. No real trade secret is divulged by communicating this bit of information.

The letter X does not necessarily mean "extra," whatever "extra" is. In the codes of some firms probably it does mean "extra," presumably higher strength or greater brilliancy or solubility. In other cases it may designate the region where certain dyes are sold. NY, for example, indicates certain brands of colors prepared especially for the American market (New York).

The whole subject of dye designations is so complex that it becomes a hopeless problem to untangle. General references to it in literature are scarce, for the reason that there is nothing definite to say upon the subject. It is much like patent medicines; the medical trade has not formulated a code to designate such remedial agents.

Some dyestuffs are differentiated from others by appended letters to indicate their source, or the materials of which they are prepared. For instance, one of the well known commercial types of Methylene Blue—specifically Methylene Blue SZ—of no particular merit as to shade, possesses properties peculiar to itself on account of having been prepared free from zinc (sans zinc).

From the foregoing it is easily realized that the matter of commercial designations of dyes is very complex. While there are standards; i. e., established types of individual dyes, such as those enumerated in the Schultz tables, from which millions of combinations are possible, every dyestuff firm has thousands and thousands of these combinations upon their books. Each is necessarily designated by some intelligible and comprehensive system in order to guard against errors and mistakes in compounding when called for.

Many well-known types of "straight" dyes as produced by the manufacturer are, *per se*, of little value when used alone. Their value is brought out when used in combination with other dyes, and this is the strong point of many valuable mixtures that under no circumstance can be replaced by "straight" dyes. While we prefer to use straight or unmixed colors, we are frequently compelled to make use of mixtures, the value of which for dyeing purposes far outweighs the usefulness of the individual components when used separately. Such mixtures, of necessity, must be designated by different letters or numbers, to prevent confusion. A common instance of this is the very extensive series of combination shades, of great value, produced with the fast

reds and azo scarlets, which may or may not be modified in tone by the judicious admixture of acid violets.

L. J. M.

There is no uniform practice and not much of a system in the marks which are used to distinguish the different brands of dyestuffs. This fact may seem rather strange, but it may be readily understood if one realizes that all dyestuff concerns have manufacturing and selling ends of the business—two loosely connected departments. The dyestuff is sent from the manufacturing department to the dyehouse, which is connected with the selling department. Both the dyehouse and the selling department are kept in ignorance regarding the chemical nature of any new product which is brought out. The same has, therefore, to be classified according to its shade and its dyeing properties. The result is that in many cases the dyer identifies a color with a group of others having similar dyeing properties but which, in fact, are chemically entirely different. The leading principle in naming the colors is less one of general classification than to furnish the salesman of a special factory with some hint as to the dyeing properties of any given color.

In most cases it is understood, for instance, that the letter B stands for "bluish." Hence, 2 B, which is equivalent to BB, denotes a still bluer shade. G means "greenish" or "yellowish"; R, "reddish"; V, "violet." Apart from these few cases of uniform practice the marks are open to all kinds of explanation. The mark L, for instance, may mean "soluble," or "fast to light," or even may stand for Ludwigshaven, which means that the color in question is identical with a well-known product of the Badische Co. at Ludwigshaven. In the same way C may stand for "Cassella" (Leopold Cassella & Co., Frankfurt); H for "Hoechst" (Farbwerke vorm. Meister Lucius & Brüning, Hoechst a. M.); E for "Elberfeld" (Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, formerly at Elberfeld); and B or A for "Berlin" (Actien-Gesellschaft für Anilin-Fabrikation, Berlin). All refer to types against which the competitive products have been standardized.

The word "extra" indicates either a special shade or a special concentration. It is a rule with us that our "extra" marks are more concentrated than the single brands, which otherwise bear the same name and mark. The letter X is used by other firms in the same way as our "extra," for higher concentrations, without, however, giving any definite information regarding the proportionate strength.

Many suggestions have been made in order to do away with this rather confusing habit of classification, but so far without success. The reason is that the selling staff on the one hand, and the millman on the other hand, are not expected to possess much chemical or coloristic knowledge. Such knowledge only would enable them to benefit from a more complicated and scientific system.

A. M.

It is a fairly well-established practice among dye manufacturers to use certain marks and letters in connection with the name of a color. All dyestuffs may be said to vary in shade from red to yellow or from blue to yellow, and this variation from the standard type is designated by the letters B, G, R, etc.

Take, for instance, Methyl Violet, which varies in shade from 3 R to 6 B. The 3 R indicates a reddish shade nearly approaching Magenta, and 6 B indicates a bluish shade nearly approaching a product like Victoria Blue B. It follows from this that 3 R means a tint redder than 2 R, 3 B means a tint bluer than 2 B, and 6 B denotes a still bluer shade than 3 B.

The letter G is generally the abbreviation for the German word "Gelb," which means yellow. The French word for yellow is "jaune." Consequently, French, Belgian, and sometimes Swiss firms use the letter J where Germans use G. English and Americans employ for the same purpose the letter Y. 2 G means the same thing as if the letter G is repeated twice, and 3 G means the same as if it were repeated three times.

As to the use of the letter X and the word "extra," these two designations are by no means alike. The word "extra" is ordinarily used to indicate a quality superior to the regular type. This is sometimes shortened simply to the letter X. More generally X indicates that the product in question is reduced 10 per cent below the standard type. XX in that case would mean that it is reduced 20 per cent below the standard type.

The mark W indicates that a dye is employed preferably for "wool," and HW refers to "half wool" or union fabrics.

The mark S indicates frequently a bisulphite compound, as in the case of Alizarin Blue S, SR, and SW. Sometimes it denotes a sulphonic acid, as when used with Alizarin Red S, SA, and WS, or Fuchsine S, SS, SN, and ST.

E. C. K.

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1907. A Treatise on Color Manufacture, George Zerr and R. Rübenkamp, translated by C. Mayer. London.
Bestimmung von Teerfarbstoffen in Farblacken, Georg Zerr. Dresden.
Lehrbuch der Farbenchemie, G. von Georgievics; 3te Aufl. Leipzig.
Thiocarmin, H. Schönholzer. Zürich. (Dissertation.)
1908. Farbenchemisches Praktikum, R. Möhlau und H. Th. Bucherer. Leipzig.
Delphinblau; Modern-Azurine, E. Bodmer. Zürich. (Dissertation.)
Quinolinblau, C. Höfchen. Jena. (Dissertation.)
The Chemistry of the Diazo Compounds, J. F. Cain. London.
1909. Organische Farbstoffe, H. Wichelhaus. Dresden.
Der Indigo und seine Konkurrenten, F. Felsen. Berlin.
Laboratory Manual of Dyeing and Textile Chemistry, J. M. Matthews. New York.
Textile Chemistry and Dyeing, L. A. Olney. New York.
1910. Identification of the Commercial Dyestuffs, S. P. Mulliken. J. Wiley & Son, New York.
Allen's Commercial Organic Analysis, W. A. Davis and S. S. Sadtler; 4th ed. Philadelphia. Vol. III, Naphthalene and its Derivatives, Anthracene and its Associates, Phenols, Aromatic Acids, Phthalic Acid and the Phthaleins. Vol. V (in preparation), Dyes and Coloring Matters. Vol. VI (in preparation), Amines and Hydrazines, Aniline and its Allies, Other Bases from Tar.
A Manual of Dyeing, Knecht, Rawson, and Loewenthal. London.
Praktisches Handbuch des Zeugdrucks, E. Lauber. Leipzig.
Die Pyrazolfarbstoffe, G. Cohn. Stuttgart.
Chinolinfarbstoffe, L. P. Krantz. Jena. (Dissertation.)
Die neueren Farbstoffe der Pigmentfarben-Industrie, R. Staeble. Berlin.
Ueber Schwefelfarbstoffe, H. Vetter. Calw. (Dissertation.)
Chemische Technologie der Gespinnstfasern, O. N. Witt and E. Lehmann; 2 Bde. Braunschweig.
Zusammenstellung der Patente auf dem Gebiete der organischen Chemie, 1877–1915, A. Winther; 3 Bde. Giessen.

1911. The Coal-Tar Colors, their Origin and Chemistry, I. W. Fay. New York.
Coal-Tar Colors in Aniline Lakes, G. Zerr, translated by Mayer. London and Philadelphia.
ulfurieren, Alkalischmelze der Sulfosäuren, Esterifizieren, H. Wichelhaus Leipzig.
Die Schwefelfarbstoffe, ihre Herstellung und Verwendung, O. Lange. Leipzig.
Chemische Technologie der organischen Farbstoffe, E. Ristenpart. Leipzig.
Türkischrot und seine Konkurrenten, F. Felsen. Berlin.
1912. Industrial Organic Chemistry, S. P. Sadtler; 4th ed. Philadelphia and London.
L'industrie des matières colorantes organiques, A. Wahl. Paris.
Steinkohlenteer, G. Lunge and H. Köhler. Braunschweig.
1913. Untersuchung und Nachweis organischer Farbstoffe auf spektroskopischem Wege, J. Formánek; 2te Aufl. Berlin.
Coal-Tar Distillation, A. R. Warner. London.
The Synthetic Dyestuffs and the Intermediate Products from which they are derived, J. F. Cain and J. F. Thorpe; 2d ed. London.
Chemistry of Dyeing, J. K. Wood. New York.
Dyes and Dyeing, C. E. Pellew. New York.
1914. Lehrbuch der Farbenchemie, H. Th. Bucherer. Leipzig.
Farbstofftabellen. Tabellarische Uebersicht der im Handel befindlichen künstlichen organischen Farbstoffe, G. Schultz; 5te Aufl. Berlin.
Coal Gas Residuals, Frederick Wagner. New York.
1915. Dyestuffs for American Textile and Other Industries, Thomas H. Norton. Washington.
Fortschritte der Teerfarbenfabrikation, 1877–1914, P. Friedländer; 11 Bde. Berlin.
The Analysis of Dyestuffs, Arthur G. Green. London.
Dyestuffs and Coal-Tar Products, T. Beacall, F. Challenger, G. Martin, and H. J. S. Sand. London.
The British Coal-Tar Industry, W. M. Gardner. London.
Chemisch-technische Untersuchungsmethoden, G. Lunge; 5te Aufl., Bd. III, S. 1087. Braunschweig.
1916. Dyestuff Situation in the United States, Thomas H. Norton. Washington.
Coal Tar and Ammonia, George Lunge; 5th ed., 3 vols. London and New York.
Carbolic Acid and its Production from Benzol, George H. Stevens. Newark.

Attention should be directed to the special articles on artificial dyestuffs in the various chemical dictionaries and lexicons, notably in the "Neues Handwörterbuch der Chemie" (Braunschweig), Wurtz, "Dictionnaire de la Chimie" (Paris), and Thorpe's "Dictionary of Applied Chemistry" (London and New York).

The extensive series of manuals, issued by the leading firms engaged in the manufacture of coal-tar colors, contain very detailed directions regarding the application of the various dyes to the different fibers, paper, wood, leather, etc. Valuable bibliographies of works dealing with the art of dyeing are found in Sadtler, "Industrial Organic Chemistry" (4th ed., p. 557), in Thorp, "Outlines of Industrial Chemistry" (3d ed., p. 552), and in J. Merritt Matthews' treatise on "The Textile Fibres" (2d ed.). Some of the more important of these works are included in the list above.

A full bibliography of the literature concerning each coal-tar dye of known composition is given under the individual serial numbers in Schultz's "Farbstofftabellen" (1914), the classification of which has been adopted in the main part of this work. In the index of the "Farbstofftabellen" references are found to the literature regarding dyes of unknown composition.

The following periodicals, devoted to color chemistry, contain a vast amount of valuable information and elaborate collections of samples illustrating the application of new dyes as they appear:

Journal of the Society of Dyers and Colourists, Bradford, England.
Textile Colorist, Philadelphia, Pa.
Revue Générale des Matières Colorantes, Paris.
Färber-Zeitung. Dr. Adolf Lehne, Berlin.
Zeitschrift für Farben- und Textilchemie. Dr. A. Buntrock, Braunschweig.
Zeitschrift für Farben-Industrie, Berlin.
Deutscher Färberkalender, Wittenberg. (An annual.)
The Year Book for Colorists and Dyers, Herman A. Metz, Vol. XV, 1912 (latest issue). New York.

The patent literature is systematically arranged in Schultz's "Farbstofftabellen," and in Heumann's extensive work, "Die Anilinfarben." In Friedländer's large compendium, "Fortschritte der Teerfarbenindustrie" (11 vols.), and in that of Winther, which covers the entire field of organic chemistry, German patents alone are considered.

The various journals of pure and of applied chemistry contain an enormous number of studies bearing upon the technical or more purely scientific questions connected with the preparation, properties, reactions, manufacture, and industrial uses of the various coal-tar colors. The indices of such publications as the "Journal of the Society of Chemical Industry" (London), the "Zeitschrift für Angewandte Chemie" (Leipzig), the "Chemisches Centralblatt" (Berlin), the "Bulletin de la Société Chimique de France" (Paris), the abstracts of the "Journal of the Chemical Society" (London), "Chemical Abstracts," published by the American Chemical Society (Easton, Pa.), and Wagner's "Jahresbericht über die Leistungen der chemischen Technologie" (Leipzig), serve as guides to this literature. The more purely scientific data are systematically classified in the successive issues of Beilstein's "Organische Chemie" (Berlin).

Reports on the dyestuff situation, by Dr. Norton, appeared in daily Commerce Reports for February 26, April 20, and May 17, 1915. The last mentioned was republished later in the form of a separate reprint. A study on the dyestuff situation in Great Britain was published in Commerce Reports on May 5, and one on possible Swiss cooperation on July 17, 1915. A monograph on "Dyestuffs for American Textile and Other Industries," prepared in compliance with a resolution of the United States Senate, was published on March 20, 1915, as Special Agents' Series No. 96. This may be procured from the Superintendent of Documents, Government Printing Office, Washington, at 10 cents a copy. An additional monograph entitled "Dyestuff Situation in the United States, November, 1915," was published on December 1, 1915, as Special Agents' Series No. 111. A revised reprint of the same appeared on May 1, 1916. It may be obtained from the Superintendent of Documents, at 5 cents a copy.

ARTIFICIAL DYESTUFFS IMPORTED INTO THE UNITED STATES, 1913-14.

CLASSIFICATION.

These dyestuffs are classified according to the system adopted by Prof. G. Schultz, in his "Farbstofftabellen" (5th ed., 1914, Berlin). This work contains full references to the technical and patent literature regarding each color of known composition. It furnishes also details on the physical and chemical properties of each color, such as spectrum, solubility in different solvents, reactions with various reagents, etc., and especially on the tinctorial properties and methods of utilization in dyeing textile and other materials. It is the *vade mecum* of all engaged in manufacturing or in using artificial colors.

In most cases a coloring matter of known composition is manufactured and imported under a variety of trade designations, although in frequent instances the same name and often the same marks are employed by more than one of the firms producing some of the older, patent-free dyes.

Following each serial number of the Schultz systematic arrangement comes first the commercial name under which the dyestuff in question is most widely known or purchased in this country. It is accompanied by the date of discovery, by the total weight, and, in most cases, by the invoice value of the importations under this head for the fiscal year ending June 30, 1914. Then follow the chemical name and formula of the compound in question, or brief indications regarding the method of preparation. The various names and marks under which the dyestuff is imported are next given, each mark or brand being accompanied by the symbol representing the manufacturing firm. Frequent reference is made to sources of fuller information regarding the character and use of colors of recent introduction.

In numerous cases subdivisions follow a main heading and are designated by the same serial number with appended letters; for example, 81, 81a, 81b. The dyestuffs enumerated under these secondary headings are, as a rule, closely allied chemically with the colors given under the main heading. In some instances the specific names or marks assigned to them represent purely mechanical differences in the method of preparation, facilitating use under varying conditions. In other instances the chemical reactions involved are modified in different ways, so as to insure more or less pronounced variations in shade.

Quite a number of the dyestuffs of known composition, currently manufactured and used in Europe or other parts of the world, and enumerated in the systematic classification of Prof. Schultz, are not regularly imported into this country. For the sake of completeness, and as a matter of convenience to dealers in colors, these dyestuffs appear in their serial order. They are accompanied by the date of discovery, the symbol denoting the leading manufacturer, and the chemical name. A zero in the column for quantities denotes the absence of imports.

The number of designations of imported artificial colors catalogued below under the 923 serial headings of Prof. Schultz's "Tables," the composition or preparation of which are more or less known, is 3,580.

In addition, the list contains 2,094 designations of dyestuffs, regarding the chemical nature of which but little has been made public other than the facts that in some cases they are azo colors; in other cases, sulphur colors. The azo colors falling in this category are enumerated at page 110; the sulphur blacks at page 170; the remaining sulphur colors at page 175; and the dyes not belonging to either of the two classes, at page 196.

SYMBOLS DENOTING MANUFACTURER.

Under each serial or secondary heading the names of dyes are arranged in a fixed order, according to the following classification of manufacturing companies. The symbol used for each company precedes its name and location:

1. THE SIX LEADING GERMAN COMPANIES.

A.....Actien-Gesellschaft für Anilin-Fabrikation, Berlin. Founded, 1873. Branches in France and Russia.

B.....Badische Anilin- und Soda-Fabrik, Ludwigshafen on the Rhine. Founded, 1865. Branches in France and Russia.

By.....Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen on the Rhine. Founded, 1862. Branches in France, Russia, and the United States (Rensselaer, N. Y.).

C.....Leopold Cassella & Co., Frankfort on the Main. Founded, 1870. Branches in France and Russia.

K.....Kalle & Co., A.-G., Biebrich on the Rhine. Founded, 1870. Branch in Russia.

M.....Farbwerke vorm. Meister Lucius & Brüning, Höchst on the Main. Founded, 1862. Branches in France and Russia.

2. THE SEVEN SMALLER GERMAN COMPANIES.

BK....Leipziger Anilinfabrik Beyer & Kegel, Fürstenberg near Leipzig. Founded, 1882.

CG.....Chemikalienwerk Griesheim G. m. b. H., Griesheim on the Main. Founded, 1881.

CJ.....Carl Jäger G. m. b. H., Anilinfarbenfabrik, Düsseldorf. Founded, 1823.

GrE.....Chemische Fabrik Griesheim-Elektron, Offenbach on the Main. Founded, 1842.

L.....Farbwerk Mühlheim vorm. A. Leonhardt & Co., Mühlheim on the Main. Founded, 1879. Branch in France.

tM.....Chemische Fabriken vorm. Weiler-ter-Meer, Uerdingen on the Rhine. Founded, 1877.

WD.....Wülfing, Dahl & Co., A.-G., Barmen. Founded, 1842.

3. DUTCH, BELGIAN, AND FRENCH COMPANIES.

FA.....Farbwerk Ammersfoort, Ammersfoort, Netherlands. Founded, 1888.

NF.....Niederländische Farben- und Chemikalienfabrik Delft, Delft, Netherlands. Founded, 1897. Branch in Russia.

AW....A. Wiescher & Co., Sucs., Haeren, Belgium. Founded, 1836. (For the sake of convenience, products exported to the United States by Lazard Godchaux, of Brussels, are also designated by the symbol AW. These products are compounded largely from the dyes made by A. Wiescher & Co., or by German color manufacturers.)

P.....Société Anonyme des Matières colorantes et produits chimiques St. Denis (formerly A. Poirrier), St. Denis, near Paris, France. Founded, 1830.

4. SWISS COMPANIES, ALL AT BASEL.

DH.....Farbwerke vorm. L. Durand, Huguenin & Co. Founded, 1871. Branches in Germany and France.

G.....Anilinfarben- und Extract-Fabriken vorm. Joh. Rud. Geigy. Founded, 1764. Branches in France, Germany, and Russia.

I.....Gesellschaft für chemische Industrie. Founded, 1885. Branch in France.

S.....Chemische Fabrik vorm. Sandoz & Co. Founded, 1887.

5. ENGLISH COMPANIES.

ClCo....The Clayton Aniline Co. (Ltd.), Clayton, near Manchester. Founded, 1876.
CR.....Clauss & Co. (formerly Clauss & Rée), Clayton, near Manchester. Founded, 1890.
CV.....Colne Vale Chemical Co., Milnsbridge, near Huddersfield.
H.....Read Holliday & Sons (Ltd.), Huddersfield. Founded, 1830. (Purchased, by British Dyes (Ltd.) in 1915.)
Lev.....Levinstein (Ltd.), Crumpsall Vale, near Manchester. Founded, 1864.

Sch.....Schoellkopf Aniline & Chemical Works (Inc.), Buffalo, N. Y. Founded, 1879. (Mention is made of this American company in connection with certain dyes of American invention listed in Schultz's tables but naturally not imported.)
Q.....Importations of unknown source, through dealers in colors.

ABBREVIATIONS.

Apart from the symbols denoting manufacturing companies, given above, the following abbreviations are employed in the list of colors:

conc.....concentrated.
Gr.....A. G. Green, "A Systematic Survey of the Organic Colouring Matters," 2d ed. London, 1904.
Kal....."Deutscher Färberkalender," published annually at Wittenberg, Germany.
R.....E. Ristenpart, "Chemische Technologie der organischen Farbstoffe." Leipzig, 1911.
red.....reduced.
S.....Index of G. Schultz's "Farbstofftabellen," Berlin, 1914, containing references to periodical literature and various publications regarding numerous dyestuffs of unknown composition.
S. H. IV ...K. Heumann, "Die Anilinfarben," Part IV, by Gustav Schultz (The Azo Colors). Brunswick, Germany, 1906.
S. J.....Gustav Schultz and Paul Julius, "Tabellarische Uebersicht der im Handel befindlichen künstlichen organischen Farbstoffe." Berlin, editions 1 to 4. The fourth edition appeared in 1902. Predecessors of Schultz's, "Farbstofftabellen."
V. M.....Various marks.

MARKS.

The various marks accompanying the names of dyestuffs have been considered already in a general manner. It is necessary here to call attention to the fact that in a few instances the marks employed in invoices of imported colors, and reproduced in connection with the same colors as enumerated in the following list, are not those used currently either in the country of origin, or in American trade and consumption, or in Schultz's "Tables." This is more notably the case with colors manufactured by Leopold Cassella & Co., of Frankfort. There are some few examples among the shipments of other firms.

In such instances, while reproducing the marks and numbers of the invoiced wares, it has seemed necessary to append, in each case, a list of the current marks for varying modifications of a given color, which are used by foreign dealers and American dyers. When the same color designation appears under several invoice marks, a list of such current marks is, therefore, added in parenthesis to the first-mentioned under any heading. Illustrations of this practice are to be found in connection with Nos. 266, 546, and 736a.

ARTIFICIAL DYESTUFFS IMPORTED DURING THE FISCAL YEAR ENDING JUNE 30, 1914.

I. NITROSO COLORING MATTERS.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
1	SOLID GREEN O.....1875 Dinitrosoresorcin.	M	0	
2	FAST PRINTING GREEN.....1875 α-nitroso-β-naphthol.	K	0	
3	DIOXINE.....1889 1-nitroso-2.7-dioxynaphthalene.	L	0	
4	NAPHTHOL GREEN.....1883 Ferrous sodium salt of nitroso-β-naphthol-β-monosulphonic acid. $C_{10}H_5\begin{cases}[1]=NO-Fe-ON=[1]\\ [2]=O \qquad O=[2]\\ [6]SO_3Na \quad NaO_3S[6]\end{cases}C_{10}H_5$	.....	19,146	$32,902
	Green PLX	B		
	Naphthol Green B	C		
	Naphthol Green B	By		

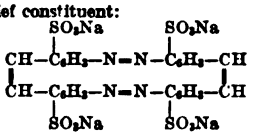
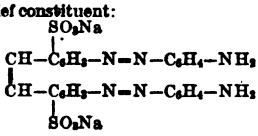
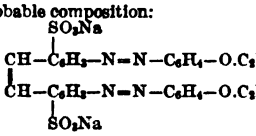
II. NITRO COLORING MATTERS.

5	PICRIC ACID.....1842 Symmetrical trinitrophenol. (Used but slightly at present for dyeing purposes; largely employed as a high explosive.)	.....	0	
6	MARTIUS YELLOW.....1856 Ammonium, sodium, or calcium salt of 2.4-dinitro-1-naphthol. Free acid: $C_6H_4\begin{cases}C(OH):C(NO_2)\\ C(NO_2):CH\end{cases}$	.....	3,295	$1,894
	Aniline Yellow	B		
	Martius Yellow 6749 rect	BK		
	Martius Yellow 741	G		
	Aniline Yellow	Q		
7	NAPHTHOL YELLOW.....1879 Sodium (or potassium) salt of 2.4-dinitro-1-naphthol-7-sulphonic acid. $C_6H_2(SO_3Na)\begin{cases}C(ONa):C(NO_2)\\ C(NO_2):CH\end{cases}$ [ONa : NO_2 : NO_2 : SO_3Na=1 : 2 : 4 : 7]	.....	250,409	$4,762
	Naphthol Yellow S	B		
	Naphthol Yellow S (for lake)	B		
	Naphthol Yellow SE	B		
	Naphthol Yellow SE	By		
	Naphthol Yellow S conc. (S.)	By		
	Naphthol Yellow SLC	M		
	Naphthol Yellow SLC 10 per cent red	M		
	Naphthol Yellow SLC 15 per cent red	M		
	Naphthol Yellow SLZ conc	M		
	Naphthol Yellow	I		
	Naphthol Yellow	Q		
7b	IMPERIAL YELLOW R (Cf. S. "Aurantia," p. 368, and Green, No. 6) (used in photography)	By	813	
8	PIGMENT CHLORINE.....1904 Condensation product of nitro-toluidine and formaldehyde.	M	0	

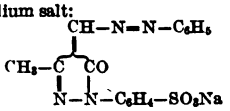
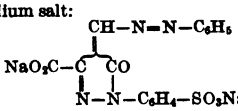
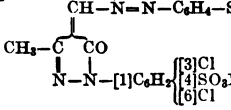
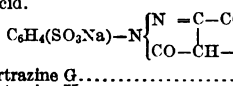
III. STILBENE COLORING MATTERS.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
9	DIRECT YELLOW.....1883 Sodium salt of azoxy-azo-distilbene-tetrasulphonic acid. Chief constituent:  Direct Yellow R extra	By	71,399	$11,295
	Direct Yellow R extra conc. 27969	By		
	Curcumine S000	L		
	Renol Yellow 3 R	tM		
	Sun Yellow 3 GC	G		
	Sun Yellow G conc	S		
	Sun Yellow RR	S		
	Direct Yellow 242	ClCo		
9a	NAPHTHAMINE YELLOW (V. M.)		42,180	6,748
	Naphthamine Yellow GN (S; S. H. IV, 1532; R. 59.) (Current mar's, BN, G, 2 G, 3 G, GN, GR, GX, NC.)	K		
	Naphthamine Yellow R	K		
	Naphthamine Yellow X	K		
	Naphthamine Yellow 188	K		
	Naphthamine Yellow 3504	K		
	Naphthamine Yellow 3505	K		
	Naphthamine Yellow 3511	K		
	Naphthamine Yellow 3515	K		
9b	DIRECT YELLOW (V. M.)		79,055	16,784
	Direct Yellow BK	K		
	Direct Yellow G	K		
	Direct Yellow GBE	K		
	Direct Yellow GR	K		
	Direct Yellow 2 G	K		
	Direct Yellow PI	K		
	Direct Yellow extra (greenish)	K		
	Direct Yellow 188	K		
	Direct Yellow 660	K		
	Direct Yellow 3509	K		
	Direct Yellow 3514	K		
9c	DIRECT YELLOW V conc	AW	1,810	
9d	DIRECT YELLOW MC	G	441	
9e	DIRECT YELLOW C	S	2,635	
9f	DIRECT YELLOW 6 G	S	1,938	
9g	DIRECT YELLOW B (S. J., 2d ed., 183)	A	29,123	
9h	DIRECT YELLOW (V. M.)		4,107	1,003
	Direct Yellow CA	H		
	Direct Yellow PC	Q		
	Direct Yellow Z conc	Q		
10	STILBENE YELLOW.....1886 Sodium salt of dinitro-azo-distilbene-disulphonic acid. (Chief constituent.)		50,477	7,464
	Stilbene Yellow GX	B		
	Stilbene Yellow 2 GP conc	B		
	Stilbene Yellow 3 GPX	B		
	Mikado Golden Yellow 6 G	L		
	Mikado Golden Yellow 8 G	L		
	Stilbene Yellow 3 G	CR		
	Stilbene Yellow 3 G	ClCo		
10a	STILBENE YELLOW RX	B	34,588	
10b	STILBENE YELLOW 5912 conc	B	730	

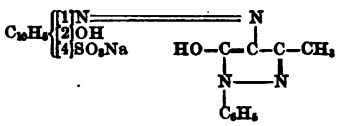
III. STILBENE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
11	CHLORAMINE ORANGE ..... 1888 Sodium salt of disazo-distilbene-tetrasulphonic acid.	.....	24,683	$5,914
	Chief constituent: 			
	Mikado Orange 4 RC	A		
	Mikado Orange 4 RO	A		
	Chloramine Orange G	By		
	Mikado Orange G	L		
	Mikado Orange 4 RO	L		
	Mikado Brown 2 B	L		
	Mikado Brown M	L		
11a	DIRECT ORANGE R extra (S.)	K	220	
11b	DIRECT ORANGE H	G	1,102	
12	DIPHENYL CITRONINE G ..... 1897 Obtained by the condensation of dinitro-stilbene-disulphonic acid with caustic soda and aniline.	G	0	
13	DIPHENYL ORANGE RR ..... 1890 Obtained by the condensation of p-nitro-toluene-sulphonic acid and p-phenylene-diamine.	G	2,447	
	Chief constituent: 			
13a	DIPHENYL ORANGE GG superfine	G	13,646	
14	DIPHENYL CHRYSOINE ..... 1899 Ethylation of the product of the condensation of p-nitro-toluene-sulphonic acid (2 mols.) with p-amidophenol (1 mol.) in presence of aqueous caustic soda.	.....	9,896	3,071
	Probable composition: 			
	Diphenyl Chrysoine GC	G		
	Diphenyl Chrysoine GOO	G		
	Diphenyl Chrysoine 3 GN	G		
15	CHICAGO ORANGE G ..... 1892 Condensation of p-nitro-toluene-o-sulphonic acid with benzidine.	G	0	
16	CURCUPHENINE ..... 1896 Sodium sulphonate of the dehydrothio-toluidide of azoxy-stilbene aldehyde.	ClCo	0	
17	CHLOROPHENINE ..... 1896 Sodium sulphonate of the dehydrothio-toluidide of azostilbene aldehyde.	ClCo	0	
18	DIPHENYL FAST YELLOW G ..... 1897 Condensation of dinitro-dibenzyl-disulphonic acid with Primuline or dehydrothio-toluidine-sulphonic acid in presence of caustic soda.	G	573	
18a	DIPHENYL CHLORINE YELLOW (V. M.)	.....	9,656	2,988
	Diphenyl Chlorine Yellow 229	G		
	Diphenyl Chlorine Yellow FF superfine (Kal. 1913)	G		
	Diphenyl Chlorine Yellow G	G		

IV. PYRAZOLONE COLORING MATTERS.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
19	**FAST LIGHT YELLOW**.....1892 Obtained by the action of aniline on 1-p-sulphophenyl-3-methyl-5-pyrazolone.	.....	33,514	$10,272
	Sodium salt: 			
	Fast Light Yellow G.....	By		
	Fast Light Yellow 2 G.....	By		
	Fast Light Yellow 2 G 27432.....	By		
	Fast Light Yellow GGN.....	By		
	Fast Light Yellow 3 G.....	By		
	Flavazine L.....	M		
19a	**FAST LIGHT YELLOW RG** (S.; Kal. 1909).....1907	By	5,394	
20	**FLAVAZINE S**.....1899 Obtained by the action of aniline on 1-p-sulphophenyl-5-pyrazolone-3-carboxylic acid.	M	19,000	
	Sodium salt: 			
20a	**FLAVAZINE** (V. M.).....	.....	62,375	10,700
	Flavazine F 3 GL (S.; Kal. 1912, 1914).....	M		
	Flavazine T.....	M		
	Flavazine T 15 per cent red.....	M		
21	**PIGMENT CHROME YELLOW L**.....1904 Action of toluidine on methyl-phenyl-pyrazolone.	M	0	
22	**XYLENE YELLOW**.....1908 Action of diazosulphonic acids on 1-o.m-dichloro-p-sulphophenyl-3-methyl-5-pyrazolone.	.....	23,074	9,759
	Sulphanilic derivative: 			
	Xylene Yellow 3 G.....	K		
	Xylene Yellow 3 G.....	S		
	Xylene Yellow 3 G conc.....	S		
	Xylene Light Yellow 2 G.....	K		
	Xylene Light Yellow R.....	K		
	Xylene Light Yellow 2 G (Kal. 1910).....	S		
	Xylene Light Yellow 2 G conc.....	S		
	Xylene Light Yellow 2 G conc. 7 : 10.....	S		
23	**TARTRAZINE**.....1884 Sodium salt of benzene-azo-pyrazolone-carboxy-disulphonic acid. 	.....	265,781	53,137
	Tartrazine G.....	B		
	Tartrazine X.....	B		
	Tartrazine XX.....	B		
	Tartrazine.....	By		
	Tartrazine conc. 28063.....	By		
	Tartrazine conc. 9254.....	BK		
	Tartrazine 9520.....	BK		
	Tartrazine.....	AW		
	Tartrazine extra strong.....	AW		
	Tartrazine conc. 150 per cent.....	I		
	Tartrazine.....	S		
	Tartrazine conc. 36260.....	S		
	Tartrazine conc. pure.....	S		
	Tartrazine extra conc. 5½ : 10.....	S		

IV. PYRAZOLONE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
23a	FAST ACID YELLOW 39 F 1535 (S.; Kal. 1910) (Current marks, 3 G, TL.)	C	4,696	
24	PIGMENT FAST YELLOW R....1903 Action of o-toluidine-m-sulphonic acid on phenyl-methyl-pyrazolone.	M	0	
25	DIANIL YELLOW 3 G....1897 Action of aceto-acetic ester on primuline-sulphonic acid.	M	0	
26	DIANIL YELLOW R....1890 Action of primuline-sulphonic acid on 4-phenyl-3-methyl-5-pyrazolone.	M	0	
27	DIANIL YELLOW 2 R....1900 Action of primuline-sulphonic acid on p-sulpho-phenyl-methyl-pyrazolone.	M	0	
28	PIGMENT FAST YELLOW G....1903 Action of p-sulpho-anthranilic acid on phenyl-methyl-pyrazolone.	M	0	
29	ERIOCHROME RED....1904 Action of 1-amido-2-naphthol-4-sulphonic acid on 1-phenyl-3-methyl-5-pyrazolone. 	.....	5,491	$2,023
	Eriochrome Red B	G		
	Eriochrome Red AW	G		
30	RADIAL YELLOW G....1909 An acid pyrazolone coloring matter.	B	0	

V. AZO COLORING MATTERS.

A. MONOAZO COLORS.

31	AMIDO-AZO-BENZENE....1861 From diazo-amido-benzene and aniline hydrochloride.	.....	0	
32	BUTTER YELLOW....1876 Dimethyl-amido-azo-benzene. $C_6H_5-N=N-C_6H_4-N(CH_3)_2$	A	0	
32a	OIL YELLOW 7869	I	4,005	
32b	OIL YELLOW	H	57	
33	CHRYSOIDINE....1875 Hydrochloride of benzene-azo-m-phenylene-diamine. $C_6H_5-N=N-C_6H_3(NH_2)_2HCl[1:2:4]$	.....	63,303	$8,585
	Chrysoidine 46803	A		
	Chrysoidine A	B		
	Chrysoidine E cryst.	B		
	Chrysoidine 28 V 1275	C		
	Chrysoidine	C		
	Chrysoidine. (Current marks, S, T.)	K		
	Chrysoidine 1001	K		
	Chrysoidine Base 6506	K		
	Chrysoidine small cryst. extra	tM		
	Chrysoidine powder new, extra conc	tM		
	Chrysoidine 3 N powder	tM		
	Chrysoidine Y powder	tM		
	Chrysoidine 2 Y cryst	tM		
	Chrysoidine C 2 E	P		
	Chrysoidine RD pure	CV		
	Chrysoidine Y powder 10 per cent.	H		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
34	CHRYSOIDINE R..... Hydrochloride of benzene-azo-m-toluylene-diamine. $C_6H_5-N=N-C_6H_3(CH_3)(NH_2)_2HCl$[1 : 5 : 2 : 4]	.....	105,946	$16,852
	Chrysoidine RL.....	B		
	Chrysoidine RL base.....	B		
	Chrysoidine RLE.....	B		
	Chrysoidine AR conc., powder.....	tM		
	Chrysoidine R conc., powder.....	tM		
	Chrysoidine RE.....	P		
	Chrysoidine R conc., powder.....	G		
34a	CHRYSOIDINE T base.....	B	110	
34b	CEROTINE SCARLET G extra.....	CJ	99	
34c	COTTON ORANGE 16737.....	I	551	
34d	COTTON ORANGE.....	S	4,299	
35	SUDAN G.....1875 Dioxy-azo-benzene or benzene-azo-resorcin. $C_6H_5-N=N-C_6H_3(OH)_2$[1 : 2 : 4] & [1 : 2 : 6]	.....	798	250
	Sudan G.....	A		
	Sudan 2 G.....	A		
	Cerasine Orange G.....	C		
36	SUDAN I.....1878 Benzene-azo-β-naphthol. $C_6H_5-N=N-C_{10}H_6.OH$ [β]	A	399	
36a	OIL ORANGE LG.....	I	4,005	
36b	ORANGE 227.....	Q	159	
37	CROCEINE ORANGE.....1878 Sodium salt of benzene-azo-β-naphthol-6-sulphonic acid. $C_6H_5-N=N-C_{10}H_5(OH)(SO_3Na)$ [1 : 2 : 6]	.....	11,366	1,535
	Ponceau 4 GB.....	A		
	Orange GRX.....	B		
	Crocein Orange G.....	By		
	Crocein Orange X.....	C		
	Crocein Orange G.....	K		
	Brilliant Orange G.....	M		
	Crocein Orange.....	BK		
37a	ORANGE (V. M.).....	.....	1,680	201
	Orange D.....	B		
	Orange X.....	H		
38	ORANGE G.....1878 Sodium salt of benzene-azo-β-naphthol-6.8-disulphonic acid. $C_6H_5-N=N-$[1] $C_{10}H_4$ {[2] OH, [6] SO_3Na, [8] SO_3Na}	.....	48,456	7,159
	Orange G.....	A		
	Orange G.....	B		
	Fast Light Orange G.....	By		
	Orange 67 E 2243. (Current marks, A, ENL, ENZ, G, GG, I, II, III, IV, R, RL, RRL.).....	C		
	Orange F 174.....	C		
	Orange G 175.....	C		
	Orange J 178.....	C		
	Orange QQ 424.....	C		
	Orange G.....	M		
	Crystal Orange 2 G 95.....	CG		
	Crystal Orange 2 G.....	WD		
	Orange Crystals 2 G.....	WD		
	Orange Crystals.....	AW		
	Orange 2 G.....	H		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
39	PONCEAU G........1878 Sodium salt of benzene-azo-β-naphthol-3.6-disulphonic acid.	M	0	
40	CHROMOTROPE 2 R........1890 Sodium salt of benzene-azo-1.8-dioxynaphthalene-3.6-disulphonic acid. $C_{10}H_3\begin{cases}[1]\ OH\\ [2]\ N=N-C_6H_5\\ [3]\ SO_3Na\\ [6]\ SO_3Na\\ [8]\ OH\end{cases}$	M	5,000	
41	FAST ACID FUCHSINE B........1890 Sodium salt of benzene-azo-1.8-amido-naphthol-3.6-disulphonic acid.	By	0	
42	AMIDO NAPHTHOL RED G........1902 From aniline and acetyl-H-acid.	M	3,500	
43	TOLANE RED B, G........1893 Sodium salt of benzene-azo-1.8-amido-naphthol-4.6-disulphonic acid.	K	0	
44	AZO ORSEILLE R........1893 From aniline and amido-naphthol-disulphonic acid RR.	A	0	
45	BRILLIANT LAKE RED R........1893 From aniline and β-oxy-naphthoic acid.	M	31,674	
46	AZOPHOR ORANGE MN........1885 m-Diazo-nitrobenzene sulphate with aluminum sulphate.	M	0	
47	ORANGE No. 3........1878 Sodium salt of m-nitrobenzene-azo-β-naphthol-disulphonic acid.	P	0	
48	ALIZARIN YELLOW........1887 m-Nitrobenzene-azo-salicylic acid. $C_6H_4\begin{cases}[3]NO_2\\ [1]N=N[1]C_6H_3\begin{cases}[4]OH\\ [3]CO_2H\end{cases}\end{cases}$	....	144,761	$11,118
	Mordant Yellow GTS paste........	B		
	Alizarin Yellow CY powder........	By		
	Alizarin Yellow GG........	By		
	Alizarin Yellow GG 28159........	By		
	Alizarin Yellow DGC........	M		
	Alizarin Yellow D 3 G........	M		
	Alizarin Yellow DOG........	M		
	Alizarin Yellow DOO........	M		
	Alizarin Yellow DR........	M		
	Alizarin Yellow GG paste........	M		
	Alizarin Yellow GGW........	M		
	Alizarin Yellow 5 G powder........	M		
	Alizarin Yellow GG paste 25 per cent........	I		
	Alizarin Yellow 5 G........	I		
	Alizarin Yellow G........	S		
49	PRAGUE ALIZARIN YELLOW G........1894 m-Nitrobenzene-azo-resorcylic acid.	Ki	0	
50	AZO CARDINAL G........1893 From p-nitraniline and ethyl-benzyl-aniline-sulphonic acid.	A	0	
51	THIAZOL YELLOW RH........1893 Sodium salt of diazo-dehydrothio-toluidine-sulphonic-acid-p-nitranilide. $C_6H_3\begin{cases}[4]CH_3\\ [1]N=\\ [2]S-\end{cases}C[4]C_6H_3\begin{cases}SO_3Na\\ [1]N\end{cases}$ $C_6H_4\begin{cases}[1]NH.N\\ [4]NO_2\end{cases}$	By	423	
52	ARCHIL SUBSTITUTE V........1878 Sodium salt of p-nitrobenzene-azo-α-naphthylamine-4-sulphonic acid.	P	0	

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
53	ARCHIL SUBSTITUTE 3 VN .... 1887 Sodium salt of p-nitrobenzene-azo-α-naphthylamine-sulphonic acid.	P	0	
54	APOLLO RED .... 1887 Sodium salt of p-nitrobenzene-azo-α-naphthylamine-disulphonic acid. $C_6H_4\left\{\begin{matrix}{[4]}NO_2\\ {[1]}N=N[2]C_{10}H_4\left\{\begin{matrix}{[1]}NH_2\\ {[4]}SO_3Na\\ {[6 \text{ or } 7]}SO_3Na\end{matrix}\right.\end{matrix}\right.$	....	904	$158
	Apollo Red B conc.	G		
	Apollo Red G conc.	G		
55	BRILLIANT ORSEILLE .... 1893 Sodium salt of the azimide of p-nitrobenzene-azo-1.8-naphthylene-diamine-disulphonic acid. $C_{10}H_3\left\{\begin{matrix}{[8]}N= \\ {[1]}NH- \end{matrix}\right\}N \; \begin{matrix}{[2]}N=N-C_6H_4(NO_2)\\ {[3]}SO_3Na\\ {[6]}SO_3Na\end{matrix}$	C	401	
56	AUTOL RED (PARANITRANILINE RED) .... 1880 p-Nitrobenzene-azo-β-naphthol. $C_6H_4\left\{\begin{matrix}{[4]}NO_2\\ {[1]}N=N[1]C_{10}H_6[2]OH\end{matrix}\right.$	....	49,847	5,379
	Autol Red BL (for paper) paste	B		
	Sitara Fast Red RL powder	tM		
57	CHROMOTROPE 2 B .... 1890 Sodium salt of p-nitrobenzene-azo-1.8-dioxynaphthalene-3.6-disulphonic acid. $C_{10}H_3\left\{\begin{matrix}{[1]}OH\\ {[3]}SO_3Na\\ {[6]}SO_3Na\\ {[7]}N=N-C_6H_4(NO_2)\\ {[8]}OH\end{matrix}\right.$	M	470	
57a	CHROMOTROPE (V. M.)	....	7,500	1,962
	Chromotrope S (S.; S. H. IV, 985)	M		
	Chromotrope S 15 per cent red	M		
	Chromotrope DW (S. 1903) (mixtures)	M		
58	MORDANT YELLOW .... 1885 p-Nitrobenzene-azo-salicylic acid. $C_6H_4\left\{\begin{matrix}{[4]}NO_2\\ {[1]}N=N[1]C_6H_3\left\{\begin{matrix}{[4]}OH\\ {[3]}CO_2H\end{matrix}\right.\end{matrix}\right.$	....	26,570	4,112
	Metachrome Orange R double powder (S. 1912)	A		
	Mordant Yellow 3 R	B		
	Mordant Yellow 3 R powder	B		
	Alizarin Yellow RW	M		
	Alizarin Yellow 3 RN	M		
	Milling Orange RO (Kal. 1908)	L		
	Terra Cotta RGN (Kal. 1914)	G		
58a	ALIZARIN YELLOW (V. M.)	....	59,000	7,676
	Alizarin Yellow O paste	M		
	Alizarin Yellow O conc.	M		
	Alizarin Yellow O conc. 15 per cent red	M		
	Alizarin Yellow O conc. 30 per cent red	M		
58b	ANTHRACENE YELLOW (V. M.)	....	515	494
	Anthracene Yellow RN paste 20 per cent	M		
	Anthracene Yellow 3 RN powder	M		
58c	ORANGE (V. M.)	....	10,974	2,634
	Orange 13	S		
	Orange 14	S		
	Orange 23981	S		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
59	WOOL VIOLET S.....1894 Sodium salt of dinitrobenzene-azo-diethyl-m-sulphanilic acid. $C_6H_3\begin{cases}(NO_2)_2\\N=N[1]C_6H_3\begin{cases}[2]SO_3Na\\[4]N(C_2H_5)_2\end{cases}\end{cases}$	B	0	
59a	WOOL VIOLET B.....	Q	308	
60	AZO PHOSPHINE GO.....1895 Chloride of m-trimethylamidobenzene-azo-resorcin. $C_6H_3\begin{cases}[3]N(CH_3)_3Cl\\[1]N=N[1]C_6H_3\begin{cases}[2]OH\\[4]OH\end{cases}\end{cases}$ (Usually mixed with the para compound.)	M	50	
61	VICTORIA VIOLET.....1891 Sodium salt of p-amidobenzene-azo-1.8-dioxynaphthalene-disulphonic acid. $C_{16}H_5\begin{cases}[1]OH\\[3]SO_3Na\\[6]SO_3Na\\[7]N=N-C_6H_4(NH_2)\\[8]OH\end{cases}$	.....	47,126	$10,986
	Ethyl Acid Violet S 4 BXX.....	B		
	Victoria Violet 4 BS.....	By		
	Azo Wool Blue 15 B 931 (S. 1902; S. H. IV, 1417.).....	C		
	(Current marks, B, C, SE, SER.)			
	Azo Wool Blue 54 C 1907.....1903	C		
	Azo Wool Blue 15 S 947.....	C		
	Victoria Violet 4 BS.....	M		
	Victoria Violet 4 BSL.....	M		
	Victoria Violet S 4 B.....	CG		
	Domingo Violet A conc.....	L		
	Victoria Violet L.....	I		
	Victoria Violet 4 BS (Kal. 1910).....	S		
61a	VICTORIA VIOLET B base.....	B	4,599	
61b	VICTORIA VIOLET RL (S.; Kal. 1911).....	M	250	
61c	VICTORIA VIOLET 10190.....	BK	331	
61d	FAST VICTORIA VIOLET S 4 B.....	GrE	79	
62	AZOGALLEINE.....1894 p-Dimethylamido-benzene-azo-pyrogallol.	G	0	
63	AZO ACID BLUE.....1904 From p-amido-dimethyl-aniline and 1.8-dioxynaphthalene-4-sulphonic acid.	.....	44,258	8,544
	Ethyl Acid Blue RR.....	B		
	Azo Acid Blue B extra.....	K		
	Azo Acid Blue B.....	M		
	Azo Acid Blue B 15 per cent red.....	M		
	Azo Acid Blue B conc.....	S		
63a	AZO ACID BLUE 2 G (S.; Kal. 1909).....	By	300	
63b	BRILLIANT AZO ACID BLUE 3 G.....	S	540	
64	LANAFUCHSINE.....1897 Sodium salt of p-acetyl-amido-benzene-azo-α-naphthol-3.6-disulphonic acid. $CH_3.CO.NH[4]C_6H_4[1]-N=N-[2]C_{10}H_4\begin{cases}[1]OH\\[3]SO_3Na\\[6]SO_3Na\end{cases}$	.....	68,055	9,375
	Sorbin Red.....	B		
	Sorbin Red X.....	B		
	Lanafuchsine 64 G 2168.....	C		
	(Current marks, 3 B, 6 B, B3S, SB, SG.)			
	Lanafuchsine 64 H 2169.....	C		
	Lanafuchsine 63 W 2158.....	C		
	Lanafuchsine 63 X 2159.....	C		
	Lanafuchsine 63 Y 2160.....	C		
	Azo Acid Red BA.....	M		
	Wool Red SB.....	CG		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
64a	AZO ACID RED 5 B (S. 1907)	M	250	
64b	AZO ACID MAGENTA G (S.-Preparation) 1891	M	10,000	
65	AZO CORALLINE 1884 Sodium salt of p-acetamidobenzene-azo-β-naphthol-disulphonic acid R.	WD	0	
66	AMIDO NAPHTHOL RED 6 B 1902 From p-amido-acetanilide and acetyl-H-acid.	M	6,500	
66a	AMIDO NAPHTHOL RED 2 B (S. 1902)	M	36,000	
66b	BRILLIANT ACID CARMINE		2,996	$783
	Brilliant Acid Carmine B (S.)	GrE		
	Brilliant Acid Carmine BOO	GrE		
66c	FAST BRILLIANT ACID CARMINE 6 B	GrE	201	
67	CHROMOTROPE 6 B 1890 Sodium salt of p-acetamidobenzene-azo-1.8-dioxy-naphthalene-disulphonic acid. $C_{10}H_3\begin{cases}[1]\ OH\\ [2]\ N=N-C_6H_4.NH(COCH_3)\\ [3]\ SO_3Na\\ [6]\ SO_3Na\\ [8]\ OH\end{cases}$	M	1,500	
67a	FAST ACID RED (V. M.)		1,318	390
	Fast Acid Red EB extra (S. 1905)	L		
	Fast Acid Red EGG (Kal. 1913)	L		
	Fast Acid Red RH (S.; Kal. 1912)	H		
68	YELLOW FAT COLOR 1877 From o-diazoamido-toluene and o-toluidine hydrochloride.		0	
69	CHRYSOIDINE R 1876 Hydrochloride of toluene-azo-m-toluylene-diamine.	C	0	
70	BRILLIANT ORANGE O 1879 Sodium salt of toluene-azo-β-naphthol-sulphonic acid. $C_6H_4(CH_3)-N=N-[1]\ C_{10}H_5\begin{cases}[2]\ OH\\ [6]\ SO_3Na\end{cases}$		21,480	8,835
	Orange GT	By		
	Brilliant Orange O	M		
71	AZO FUCHSINE B 1889 Sodium salt of toluene-azo-1.8-dioxynaphthalene-sulphonic acid.	By	0	
72	PIGMENT ORANGE R 1904 Action of diazotised p-nitro-o-toluidine upon β-naphthol.	M	0	
73	HELIO FAST RED 1908 From m-nitro-p-toluidine and β-naphthol.		13,413	2,141
	Helio Fast Red RL powder	By		
	Helio Fast Red RL extra paste 27429 (Kal. 1907)	By		
	Helio Fast Red TRL 28352 paste	By		
73a	LITHOL FAST SCARLET		36,295	9,287
	Lithol Fast Scarlet B paste (S.; R. Staeble, 107). (Pigment)	B		
	Lithol Fast Scarlet G paste	B		
	Lithol Fast Scarlet RN powder	B		
	Lithol Fast Scarlet RN paste (S.)	B		
74	TANNIN ORANGE 1892 o-Dimethylamido-toluene-azo-β-naphthol, mixed with the para compound. $C_6H_4\begin{cases}[2]\ \text{or}\ [4]\ CH_2.N(CH_3)_2\\ [1]\ N=N\ [1]\ C_{10}H_6\ [2]\ OH\end{cases}$ (Current marks, GG, R.)	C	2,202	1,140

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
75	NEW PHOSPHINE G.....1892 o-Dimethylamido-toluene-azo-resorcin, mixed with the para compound. $C_6H_4\begin{cases}[2]\text{ or }[4]\,CH_3.N(CH_3)_2\\[1]\,N=N\,[1]\,C_6H_3(OH)_2\,[2:4]\end{cases}$	C	500	
76	SUDAN II.....1883 Xylene-azo-β-naphthol.	A	0	
76a	SCARLET (V. M.).....	.....	501	$142
	Scarlet 231. (Current mark, G.).....	CJ		
	Scarlet 243. (Current mark, G.).....	CJ		
77	AZO COCCINE 2 R.....1882 Sodium salt of xylene-azo-1-naphthol-p-sulphonic acid.	A	0	
78	COCHINEAL SCARLET 4 R.....1883 Sodium salt of xylene-azo-1-naphthol-5-sulphonic acid. $C_6H_3(CH_3)_2-N=N-C_{10}H_5\begin{cases}[1]OH\\[5]SO_3Na\end{cases}$	Sch	0	
79	XYLIDINE ORANGE RR conc.....1879 Sodium salt of xylene-azo-β-naphthol-6-sulphonic acid. $C_6H_3(CH_3)_2-N=N-[1]C_{10}H_5\begin{cases}[2]OH\\[6]SO_3Na\end{cases}$	BK	3,307	
79a	ORANGE NA.....	GrE	897	
80	WOOL SCARLET R.....1885 Sodium salt of xylene-azo-α-naphthol-4.8-disulphonic acid. $C_6H_3(CH_3)_2-N=N-[2]C_{10}H_4\begin{cases}[1]OH\\[4]SO_3Na\\[8]SO_3Na\end{cases}$	Sch	0	
80a	WOOL SCARLET (V. M.).....	.....	39,888	6,293
	Wool Scarlet 4 R conc.....	BK		
	Wool Scarlet 270.....	Lev		
	Wool Scarlet 285.....	Lev		
	Wool Scarlet 390.....	Lev		
	Wool Scarlet 5 B.....	H		
81	BRILLIANT COCHINEAL.....1886 Sodium salt of m-xylene-azo-α-naphthol-3.6-disulphonic acid. $C_6H_3(CH_3)_2-N=N-[2]C_{10}H_4\begin{cases}OH[1]\\(SO_3Na)_2[3:6]\end{cases}$	.....	4,297	577
	Palatine Scarlet A.....	B		
	Brilliant Cochineal 61 J 2093.....	C		
	Brilliant Cochineal 61 K 2091.....	C		
81a	PALATINE SCARLET (V. M.).....	.....	3,114	483
	Palatine Scarlet G (for La' e).....	B		
	Palatine Scarlet 3 R (S. Composition).....	B		
	Palatine Scarlet 4 R.....	B		
81b	COCHINEAL.....	P	99	
82	PONCEAU 2 R.....1878 Sodium salt of xylene-azo-β-naphthol-3.6-disulphonic acid. $C_6H_3(CH_3)_2-N=N-[1]C_{10}H_4\begin{cases}[2]OH\\[3]SO_3Na\\[6]SO_3Na\end{cases}$	.....	8,105	958
	Ponceau S 2 R.....	B		
	Ponceau 2 RL (Kal. 1914).....	By		
	Ponceau 2 R.....	tM		
	Ponceau 2 R.....	P		
	Scarlet RR.....	H		
	Ponceau 2 R.....	Q		
82a	PONCEAU (V. M.).....	.....	20,972	1,931
	Ponceau RL.....	A		
	Ponceau 2 RL.....	A		
	Ponceau 2 RLH.....	A		
	Ponceau 3 RL extra 80 : 100.....	A		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
82b	PONCEAU X	BK	551	
82c	PONCEAU (free from arsenic)	WD	220	
82d	SCARLET RD	H	5,401	
83	PONCEAU 3 R.....1878 Sodium salt of ψ-cumene-azo-β-naphthol-3.6-disulphonic acid. $C_6H_2\{[5]CH_3, [4]CH_3, [2]CH_3, [1]N{=}N{-}C_{10}H_4\{[2]OH, [3]SO_3Na, [6]SO_3Na$	.....	953	$95
	Ponceau 3 R conc	By		
	Ponceau 3 R	Lev		
83a	PONCEAU (V. M.)	.....	2,604	250
	Ponceau XB. (Current marks, GR, 2 R, 3 R, 4 R.)	K		
	Ponceau 1608	K		
84	AZO CHROMINE.....1893 Tetra-oxy-azo-benzene.	G	0	
85	OMEGA CHROME BLACK.....1905 From o-diazophenols and aryl-1.8-naphthylamine-sulphonic acids.	S	0	
86	AZARINE S.....1883 Ammonium bisulphite compound of dichloro-phenol-azo-β-naphthol.	M	0	
87	PERI WOOL BLUE.....1901 Action of diazotised nitro-amido-phenols upon peri (1.8) derivatives of naphthalene.	C	0	
88	ACID ANTHRACENE BROWN R.....1899 Action of diazotised picramic acid upon substituted phenylene-diamine-sulphonic acids.	By	2,498	
88a	ACID ANTHRACENE BROWN (V. M.)	.....	30,555	7,332
	Acid Anthracene Brown M	By		
	Acid Anthracene Brown P (S.; Kal. 1912)	By		
	Acid Anthracene Brown PG	By		
	Acid Anthracene Brown RH extra (S.; Kal. 1907)	By		
	Acid Anthracene Brown W (S. H. IV, 1497).....1900	By		
	Acid Anthracene Brown WSG	By		
89	METACHROME BROWN B powder.....1900 Action of diazotised picramic acid upon dinitro-phenol-azo-m-toluylene-diamine. $HO.C_6H_2.(NO_2)_2{-}N{=}N{-}C_6H_3(CH_3)(NH_2)_2$	A	1,001	
90	CHROME BROWN P.....1903 Dinitro-phenol-azo-m-amido-phenol.	P	0	
91	ANTHRACYL CHROME GREEN D.....1902 Action of diazotised picramic acid upon naphthionic acid.	WD	4,596	
92	METACHROME BORDEAUX R.....1902 Action of diazotised picramic acid upon m-amido-aryl-sulphamides.	A	0	
93	SUDAN R Action of diazotised o-anisidine upon β-naphthol.	A	99	
94	AZO EOSINE.....1883 Sodium salt of anisol-azo-α-naphthol-4-sulphonic acid. $CH_3.O.C_6H_4{-}N{=}N{-}[2]C_{10}H_5\{[1]OH, [4]SO_3Na$	By	1,001	
95	COCHENILLE SCARLET B.....1892 Sodium salt of anisol-azo-α-naphthol-4.8-disulphonic acid. $CH_3.O.C_6H_4{-}N{=}N[2]C_{10}H_4\{[1]OH, [4]SO_3Na, [8]SO_3Na$	WD	952	

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
96	CHROME FAST YELLOW 2 G powder ..... 1895 Action of diazotised o-anisidine upon salicylic acid.	A	150	
96a	CHROME FAST YELLOW (V. M.)	.....	15,165	$3,056
	Chrome Fast Yellow G extra (S. J. 4th ed., 146; S. H. IV, 1467). (Sulphonic acid of the azo dye obtained by the reaction of the condensation product of chrysoidine and benzaldehyde with salicylic acid.)	A		
	Chrome Fast Yellow GG 148 per cent (S. J. 4th ed., 146; S. H. IV, 1467)	I		
	Chrome Fast Yellow 5 G (Kal. 1910)	I		
	Chrome Fast Yellow GA	I		
	Chrome Fast Yellow O (S.; Kal. 1910)	I		
97	CHLORANISIDINE SCARLET	M	0	
	Action of diazotised chloranisidine upon β-naphthol.			
98	NITROSAMINE PINK BXF ..... 1897 Action of diazotised p-nitro-o-anisidine upon β-naphthol.	B	99	
99	TUSCALINE ORANGE G	B	0	
	Action of diazotised m-nitro-o-anisidine upon β-naphthol.			
100	EOSAMINE B ..... 1894 Sodium salt of p-cresol-methyl-ether-azo-1-naphthol-3.8-disulphonic acid. $C_6H_3\{[1]N{=}N[2]C_{10}H_4\{[1]OH,[3]SO_2Na,[8]SO_2Na\},[2]OCH_3,[5]CH_3\}$	.....	1,914	512
	Eosamine B	A		
	Eosamine G	A		
101	COCCININE B ..... 1878 Sodium salt of p-methoxy-toluene-azo-2-naphthol-3.6-disulphonic acid.	M	0	
102	DIAMOND FLAVINE G ..... 1891 p-Oxydiphenyl-azo-salicylic acid. $C_6H_4.OH$ $C_6H_4.N_2.C_6H_3(OH)(CO_2H)[1:4:3]$	By	23,998	
103	DUTCH YELLOW ..... 1891 Action of diazotised benzidine upon salicylic acid; followed by treatment with sodium sulphite.	FA	0	
104	BENZOYL PINK ..... 1891 Sodium salt of benzoyl-amido-ditolyl-azo-1-naphthol-4-sulphonic acid.	P	0	
105	SUDAN BROWN ..... 1878 α-Naphthalene-azo-α-naphthol.	A	0	
106	AUTOL RED RLP paste ..... α-Naphthalene-azo-β-naphthol. $C_{10}H_7[\alpha]N{=}N{-}C_{10}H_6(OH)[\beta]$	B	3,676	
106a	SCARLET 2 RII	AW	1,235	
106b	SCARLET 4 RI	AW	1,254	
106c	RED BROWN	S	110	
107	SULPHAMINE BROWN A ..... 1894 Action of diazotised α-naphthylamine upon the sodium bisulphite compound of nitroso-β-naphthol.	WD	122	
108	DOUBLE PONCEAU R ..... 1897 Action of diazotised α-naphthylamine upon 1-naphthol-5-sulphonic acid.	By	0	
109	PALATINE RED A ..... 1896 Sodium salt of α-naphthalene-azo-1-naphthol-3.6-disulphonic acid. $C_{10}H_7[1]N{=}N{-}C_{10}H_4\{OH[1],(SO_3Na)_2[3:6]\}$	B	300	

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
110	BUFFALO RUBINE.....1884 Sodium salt of α-naphthalene-azo-1-naphthol-4.8-disulphonic acid. $C_{10}H_7[\alpha]N=N-C_{10}H_4\begin{cases}[\alpha]OH\\(SO_3Na)_2\end{cases}$ $[N_2 : OH : SO_3H : SO_3H = 2 : 1 : 4 : 8]$	Sch	0	
111	FAST RED BT.....1878 Sodium salt of α-naphthalene-azo-2-naphthol-6-sulphonic acid.	By	0	
112	BORDEAUX B.....1878 Sodium salt of α-naphthalene-azo-2-naphthol-3.6-disulphonic acid. $C_{10}H_7[1]N=N-[1]C_{10}H_4\begin{cases}[2]OH\\[3]SO_3Na\\[6]SO_3Na\end{cases}$	.....	10,383	$1,474
	Bordeaux B extra.....	A		
	Fast Red BN.....	B		
	Bordeaux R.....	K		
	Bordeaux B conc. 150 per cent.....	BK		
	Bordeaux BR.....	BK		
	Bordeaux G double conc.....	BK		
	Bordeaux R conc.....	BK		
	Bordeaux 5005.....	BK		
112a	CLARET RED B.....	.....	14,338	1,991
	Claret Red B.....	M		
	Claret Red B (for lake).....	M		
	Claret Red BO (for lake).....	M		
	Claret Red X conc.....	M		
112b	BORDEAUX 265.....	Q	1,100	261
113	CRYSTAL PONCEAU.....1883 Sodium salt of α-naphthalene-azo-2-naphthol-6.8-disulphonic acid. $C_{10}H_7[1]N=N-[1]C_{10}H_4\begin{cases}[2]OH\\[6]SO_3Na\\[8]SO_3Na\end{cases}$	.....	628	126
	Crystal Ponceau 6 R.....	A		
	Crystal Ponceau.....	B		
	Crystal Ponceau 6 R.....	BK		
114	CHROMOTROPE 10 B.....1890 Sodium salt of α-naphthalene-azo-1.8-dioxynaphthalene-3.6-disulphonic acid.	M	0	
115	AZO TURKISH RED.....1888 Action of diazotised β-naphthylamine upon β-naphthol.	GrE	0	
116	SULPHAMINE BROWN B.....1894 Action of diazotised β-naphthylamine upon the sodium bisulphite compound of nitroso-β-naphthol.	WD	0	
117	ERICA 2 GN.....1888 Action of diazotised dehydro-thio-p-toluidine upon α-naphthol-3.8-disulphonic acid.	A	1,171	
118	GERANINE.....1890 Action of diazotised dehydro-p-toluidine upon 1-naphthol-4.8-disulphonic acid, or upon 1-naphthol-3-sulphonic acid, or upon 1.8-dioxynaphthalene-4-sulphonic acid.	.....	18,917	6,000
	Geranine G.....	By		
	Brilliant Geranine B.....	By		
119	DIAMINE ROSE (V. M.).....1893 Sodium salt of benzenyl-amido-thio-phenol-azo-8-chloro-1-naphthol-3.6-disulphonic acid. $C_6H_3\begin{cases}[1]CH_3\\[3]S\\[4]N\end{cases}\equiv C[1]C_6H_4[4]N_2[2]C_{10}H_2\begin{cases}[1]OH\\[3]SO_3Na\\[6]SO_3Na\\[8]Cl\end{cases}$	.....	5,269	2,167
	Diamine Rose 62 E 2114. (Current marks, B, BD, BG, FFB, GD, GGN, RD.)	C		
	Diamine Rose 62 H 2117.....	C		
	Diamine Rose 62 L 2121.....	C		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
120	SALMON RED 1891	A	0	
	Sodium salt of methyl-benzenyl-amido-thio-xylenol-azo-2-naphthylamine-3.6-disulphonic acid.			
121	ERICA B 1888	....	5,340	$2,927
	Sodium salt of methyl-benzenyl-amido-thio-xylenol-azo-1-naphthol-3.8-disulphonic acid.			
	$C_6H_2\left\{\begin{matrix}[1]CH_3\\ [3]CH_3\\ [5]S\\ [6]N\end{matrix}\right\} \equiv C[1]C_6H_3\left\{\begin{matrix}[4]N{=}N-C_{10}H_4\left\{\begin{matrix}[1]OH\\ [3]SO_3Na\\ [8]SO_3Na\end{matrix}\right.\\ [3]CH_3\end{matrix}\right.$			
	Erica B extra	A		
	Erica BN	A		
	Erica BB	S		
	Erica BB conc	S		
122	ERICA G 1888	....	2,051	1,380
	Action of diazotised dehydro-thio-m-xylidine upon 2-naphthol-6.8-disulphonic acid.			
	Erica G extra	A		
	Erica GN	A		
122a	ERICA G (V.M)	....	319	186
	Erica G	S		
	Erica G conc. 5 : 10	S		
123	EMIN RED 1891	A	0	
	Sodium salt of methyl-benzenyl-amido-thio-xylenol-azo-2-naphthol-7-sulphonic acid.			
124	DIAZINE GREEN S 1897	K	1,240	
	Chloride of safranine-azo-dimethylaniline.			
	$S-N{=}N-C_6H_4.N(CH_3)_2$			
	(S=residue of safranine.)			
125	DIAZINE BLACK 1401 1896	K	2,630	
	(Current marks, G, 2 G, R.)			
	Safranine-azo-phenol.			
	$S-N{=}N-C_6H_4-OH$			
	(S=residue of safranine.)			
126	INDOINE BLUE R 1891	B	0	
	Safranine-azo-β-naphthol.			
	$S-N{=}N-C_{10}H_6.OH[\beta]$			
	(S=residue of safranine.)			
126a	UNION BLUE (V. M.)	....	15,353	2,116
	Union Blue 42 D 1608 (Kal. 1907). (Current marks, 2 B, BJ, FN, J, RJ.)	C		
	Union Blue R	K		
	Union Blue H	S		
127	METHYL INDONE B 1895	C	0	
	Action of diazotised safranine upon amidonaphthol.			
128	JANUS GRAY B 1897	M	0	
	A derivative of safranine.			
129	CHROMAZONE RED (New) conc 1895	G	243	
	Sodium salt of benzaldehyde-azo-1.8-dihydroxy-naphthalene-3.6-disulphonic acid.			
	$C_{10}H_3\left\{\begin{matrix}[1]OH\\ [2]N{=}N-C_6H_4-COH\\ [3]SO_3Na\\ [6]SO_3Na\\ [8]OH\end{matrix}\right.$			
130	CHROMAZONE BLUE R 1895	G	0	
	Ethyl-phenyl-hydrazone of Chromazone Red, No. 129.			

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
131	PERMANENT ORANGE R. Action of diazotised m-chloraniline-o-sulphonic acid upon β-naphthol.	A	0	
132	LAKE RED P.....1901 Action of p-nitraniline-o-sulphonic acid upon β-naphthol.	M	60,345	
133	ERIOCHROME PHOSPHINE R.....1909 Sodium salt of nitro-sulphobenzene-azo-salicylic acid. 	G	1,433	
134	METANIL YELLOW.....1879 Sodium salt of m-sulphobenzene-azo-diphenylamine. 	.....	284,606	$46,614
	Metanil Yellow extra	A		
	Metanil Yellow extra	B		
	Metanil Yellow PL	B		
	Metanil Yellow PL conc	B		
	Metanil Yellow PLG	B		
	Metanil Yellow conc	By		
	Metanil Yellow extra	K		
	Victoria Yellow conc	M		
	Metanil Yellow	CG		
	Metanil Yellow 23389	CJ		
	Metanil Yellow 90 per cent 27733	tM		
	Metanil Yellow 37881	tM		
	Metanil Yellow GR extra conc	tM		
	Metanil Yellow X	tM		
	Metanil Yellow 07777	WD		
	Metanil Yellow extra strong	AW		
	Metanil Yellow extra conc	AW		
	Metanil Yellow extra strong	S		
135	JAUNE MÉTANILE BROMÉ.....1882 Action of bromine on Metanil Yellow, No. 134.	P	0	
136	ACID YELLOW GG A sulphonic acid of Metanil Yellow, No. 134.	GrE	0	
137	ACID YELLOW.....1877 Mixture of sodium amidoazobenzene-disulphonate with some sodium amidoazobenzene-monosulphonate. Chief constituent: 	.....	35,982	6,313
	Acid Yellow	A		
	Acid Yellow G	A		
	Fast Yellow	B		
	Fast Yellow Y	B		
	Fast Yellow extra	By		
	Fast Yellow S	C		
	Acid Yellow AC	K		
	Acid Yellow LR	K		
	Acid Yellow G	BK		
	Fast Yellow GR conc	tM		
	Fast Yellow 81	WD		
	Fast Yellow 08565	WD		
	Acid Yellow extra strong	AW		
	Acid Yellow conc	AW		
	Yellow 2 S	P		
	Acid Yellow G	S		
	Fast Yellow FY	Lev		
	Acid Yellow GF	H		
	Acid Yellow 41471	H		
	Acid Yellow FY	H		
	Acid Yellow G	Q		
	Fast Yellow 95	Q		
	Solid Yellow G	Q		
137a	FAST ACID YELLOW RH	H	1,396	

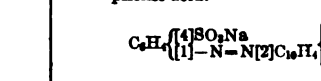
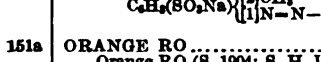
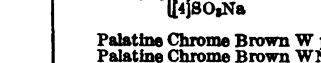
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
138	METHYL ORANGE.....1875 Sodium salt of p-sulphobenzene-azo-dimethylaniline. $C_6H_4\begin{cases}[4]SO_3Na\\[1]N=N-[1]C_6H_4[4]N(CH_3)_2\end{cases}$	tM	500	
139	ORANGE IV.....1876 Sodium salt of p-sulphobenzene-azo-diphenylamine. $C_6H_4\begin{cases}[4]SO_3Na\\[1]N=N-[1]C_6H_4[4]NH.C_6H_5\end{cases}$	.....	11,238	$1,006
	Acid Yellow D extra	A		
	Orange IV	B		
	Orange IV	K		
	Orange IV 50 SED	K		
	Orange IV	tM		
	Orange 4	P		
	Orange IV powder	G		
	Orange N	I		
	Orange GS	H		
	Tropeoline OO	H		
139a	ORANGE (V. M.)	.....	7,782	1,067
	Orange G. (Current marks, I, T.)	K		
	Orange GC	K		
	Orange 2 R	K		
	Orange 1095	K		
	Orange 1553	K		
	Orange 1555	K		
	Orange 1557	K		
	Orange 1560	K		
140	CURCUMEINE.....1880 A mixture of 3 isomeric mononitro derivatives of Orange IV, No. 139, and 2 isomeric dinitro-diphenylamines.	.....	39,389	6,287
	Curcumeine extra	A		
	Curcumeine S extra 50:100	A		
	Curcumeine S	A		
	Azo Flavine RS	B		
	Azo Flavine RS new	B		
	Indian Yellow R conc	By		
	Curcumeine GG conc	BK		
	Curcumeine superfine conc	BK		
	Citronine GOOO	GrE		
	Citronine 2 ROOOO	GrE		
	Azo Flavine 3 R extra	tM		
140a	CHROMOCITRONINE R powder	DH	600	
141	AZO YELLOW.....1880 A mixture of 2 isomeric dinitro derivatives of Orange IV, No. 139, a small amount of a trinitro derivative of Orange IV, 2 isomeric dinitro-diphenylamines, and a trinitro-diphenylamine.	.....	89,894	13,755
	Azo Acid Yellow	A		
	Azo Flavine S	B		
	Indian Yellow G	By		
	Indian Yellow GN (S.; Kal. 1908; 1914)	By		
	Azo Yellow 44 44 SUX	K		
	Azo Yellow conc	M		
	Citronine GOO conc	L		
	Azo Yellow 3 G extra	tM		
	Helianthine G conc	G		
	Helianthine GFF	G		
	Helianthine GFF superfine	G		
	Helianthine R conc	G		
	Azo Yellow	Q		
141a	AZO FLAVINE (V. M.)	.....	20,114	3,151
	Azo Flavine CX	B		
	Azo Flavine FF (S. 1897)	B		
	Azo Flavine 3G ex. (S. 1897)	B		
	Azo Flavine GX new	B		
	Azo Flavine new RX	B		
	Azo Flavine 2 RNH	B		
	Azo Flavine 3 R	B		
	Azo Flavine SGR extra	B		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
141b	INDIAN YELLOW (V. M.)		10,537	$2,382
	Indian Yellow 17 J 988 (S.; Kal. 1905) (Current marks, FF, G, R.)	C		
	Indian Yellow V 189	C		
	Indian Yellow W 190	C		
	Indian Yellow 17 Z 1004	C		
141c	AZO YELLOW (V. M.)		9,685	2,307
	Azo Yellow 3 A extra conc	tM		
	Azo Yellow 3 AN extra conc	tM		
	Azo Yellow 3 Y extra conc	tM		
141d	YELLOW (V. M.)		14,439	4,752
	Yellow R	W		
	Yellow 145	I		
	Yellow 10279	I		
	Yellow 10280	I		
142	CURCUMINE		1,622	469
	Sodium salt of p-sulphobenzene-azo-diphenylamine-sulphonic acid.			
	Brilliant Yellow	tM		
	Curcumine extra	tM		
	Curcumine L conc	G		
142a	YELLOW CP		8,312	1,241
	Yellow CP 32 A	Lev		
	Yellow CP 131 A	Lev		
143	TROPÆOLINE 1875		6,252	1,225
	Sodium salt of p-sulphobenzene-azo-resorcin.			
	$C_6H_4\begin{cases}[4]SO_3Na \\ [1]N=N-[4]C_6H_3\begin{cases}[1]OH \\ [3]OH\end{cases}\end{cases}$			
	Tropæoline 17 N 992. (Current marks, D, G, O, OO, R, RN, RNP, Y.)	C		
	Tropæoline NN 617	C		
	Tropæoline 16 O 968	C		
	Tropæoline 232	C		
144	ORANGE I 1876		6,101	750
	Sodium salt of p-sulphobenzene-azo-α-naphthol.			
	$C_6H_4\begin{cases}[4]SO_3Na \\ [1]N=N-[4]C_{10}H_6[1]OH\end{cases}$			
	Naphthol Orange	A		
	Orange I conc	B		
	Orange S	B		
	Orange I conc. 24765	By		
	Orange I 51	tM		
	Orange I 52	tM		
	Orange I 102	tM		
	Naphthol Orange 12791	I		
144a	ORANGE GD extra. (Current mark, B.)	L	2,204	
145	ORANGE II 1876		127,550	16,116
	Sodium salt of p-sulphobenzene-azo-β-naphthol.			
	$C_6H_4\begin{cases}[4]SO_3Na \\ [1]N=N-[1]C_{10}H_6[2]OH+5H_2O\end{cases}$			
	Orange II	B		
	Orange II conc	B		
	Orange II extra conc	B		
	Orange II P	B		
	Golden Orange	By		
	Orange II	K		
145a	ORANGE PC		1,327	327
	Orange PC	DH		
	Orange PC paste	G		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
146	AZO FUCHSINE G.....1889 Sodium salt of p-sulpho-benzene-azo-dioxy-naphthalene-sulphonic acid.  Azo Fuchsine G	By	17,819	$2,585
	Azo Fuchsine 4 G extra (S.; Kal. 1910)	By		
	Azo Magenta G	CV		
147	AZO FUCHSINE 6 B.....1900 Similar in composition to Azo Fuchsine B, No. 71, and to Azo Fuchsine G, No. 146.		13,206	1,867
	Azo Fuchsine 6 B	By		
	Azo Fuchsine 6 B extra	By		
	Azo Fuchsine GN	By		
148	FAST ORANGE O.....1901 Action of diazotised o-nitraniline-p-sulphonic acid upon β-naphthol.	M	1,250	
149	FAST YELLOW R.....1878 Sodium salt of amido-azo-toluene-disulphonic acid.	K	0	
150	FAST YELLOW N.....1878 Sodium salt of sulpho-p-toluene-azo-diphenylamine.	P	0	
151	ORANGE R.....1886 Sodium salt of sulpho-o-toluene-azo-β-naphthol. 	B	600	
151a	ORANGE RO		90,147	7,395
	Orange RO (S. 1904; S. H. IV, 2413)	B		
	Orange RO conc	B		
152	PERMANENT RED 4 B.....1903 Action of diazotised p-toluidine-o-sulphonic acid upon β-oxy-naphthoic acid.		44,350	14,513
	Permanent Red 4 B extra powder	A		
	Permanent Red 4 B paste	A		
	Lithol Rubine BN powder (S.)	B		
152a	PERMANENT RED (V. M.)		56,545	7,408
	Permanent Red B extra powder (S.)	A		
	Permanent Red 2 B extra powder (S.; Kal. 1914)	A		
	Permanent Red 2 B paste	A		
	Permanent Red R extra powder	A		
	Permanent Red R extra lumps	A		
	Permanent Red R paste (S.; Kal. 1910)	A		
	Permanent Red 4 R extra lumps (S.)	A		
153	LAKE RED C extra (S.; S. H. IV, 2467).....1902 Action of diazotised 2-chloro-5-toluidine-4-sulphonic acid upon β-naphthol.	M	306,607	
154	PALATINE CHROME BROWN.....1893 Sodium salt of p-sulpho-o-hydroxybenzene-azo-m-phenylene-diamine. 		7,109	1,962
	Palatine Chrome Brown W powder	B		
	Palatine Chrome Brown WN	B		
	Palatine Chrome Brown WNR	B		
	Palatine Chrome Brown WNRTX	B		
	Anthracyl Chrome Brown D	WD		
154a	PALATINE CHROME BROWN (V. M.)		11,155	2,712
	Palatine Chrome Brown GGX (S.; Kal. 1912; formula for preparation)	B		
	Palatine Chrome Brown GGTX	B		
	Palatine Chrome Brown 5 G	B		
	Palatine Chrome Brown R	B		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
155	ACID ALIZARIN GARNET R.....1901 Action of diazotised o-amidophenol-p-sulphonic acid upon resorcin.	M	0	
156	PALATINE CHROME VIOLET.....1893 Action of diazotised o-amidophenol-p-sulphonic acid upon β-naphthol.	B	1,199	
157	DIAMOND BLACK.....1902 Action of diazotised o-amidophenol-p-sulphonic acid upon 1.5-dioxynaphthalene.	.....	235,074	$37,055
	Diamond Black P 2 B conc. (Kal. 1905)	By		
	Diamond Black PV	By		
	Diamond Black PV paste	By		
	Diamond Black PVT (Kal. 1912)	By		
158	CHROME BROWN RR.....1893 Sodium salt of disulpho-oxybenzene-azo-pyrogallol. $C_6H_2\begin{cases}[4]OH\\[3]SO_3Na\\[5]SO_3Na\\[1]N{=}N[1]C_6H_3\begin{cases}[4]OH\\[3]OH\\[2]OH\end{cases}\end{cases}$	G	0	
158a	CHROME BROWN (V. M.).....	.....	7,241	1,940
	Chrome Brown CS	K		
	Chrome Brown 2813	K		
	Chrome Brown extra	AW		
	Chrome Gallus Brown RR paste	G		
	Chrome Brown 414	Lev		
159	ACID ALIZARIN BLACK.....1901 Sodium salt of nitro-sulphophenol-azo-β-naphthol. $C_6H_2\begin{cases}[1]OH\\[2]N{=}N{-}C_{10}H_6OH(\beta)\\[4]SO_3Na\\[6]NO_2\end{cases}$	.....	900	522
	Acid Alizarin Black (Kal. 1914)	M		
	Acid Alizarin Black R	M		
159a	VIGOUREUX FAST BLACK T (S.; Kal. 1911)	M	16,000	
160	FAST BROWN N.....1878 Sodium salt of p-sulphonaphthalene-azo-α-naphthol. $C_{10}H_6\begin{cases}[4]SO_3Na\\[1]N{=}N{-}[4]C_{10}H_6[1]OH\end{cases}$	B	67,531	
160a	AZO BROWN V (S.)	M	750	
161	FAST RED A.....1877 Sodium salt of p-sulphonaphthalene-azo-β-naphthol. $C_{10}H_6\begin{cases}[4]SO_3Na\\[1]N{=}N{-}[1]C_{10}H_6[2]OH\end{cases}$	.....	46,359	5,465
	Fast Red A extra 85 : 100	A		
	Fast Red AV	B		
	Fast Red A	By		
	Fast Red AV 28133	By		
	Roccelline	C		
	Fast Red O	M		
	Fast Red A	L		
	Roccelline MB powder	tM		
	Roccelline S	tM		
	Roccelline pure extra conc	FA		
	Roccelline S	G		
	Fast Red conc	S		
	Cardinal Red J	H		
	Roccelline FS	H		
162	BRILLIANT FAST RED G.....1877 Sodium salt of 5-sulphonaphthalene-azo-β-naphthol.	B	0	

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
163	AZO RUBINE.....1883	.....	160,253	$23,409
	Sodium salt of 4-sulphonaphthalene-azo-α-naphthol-4-sulphonic acid.			
	$C_{10}H_6\begin{cases}[4]SO_3Na\\[1]N=N\end{cases}-[2]C_{10}H_5\begin{cases}[1]OH\\[4]SO_3Na\end{cases}$			
	Azo Rubine SG (S. 1902; S. H. IV, 789).....	A		
	Carmoisine.....	A		
	Carmoisine extra.....	A		
	Fast Red CJ (S.).....	B		
	Mars Red AX conc.....	B		
	Mars Red GX.....	B		
	Carmoisine B.....	By		
	Carmoisine B conc.....	By		
	Azo Rubine 60 Q, 2074. (Current mark, A.).....	C		
	Azo Rubine 60 R 2075.....	C		
	Azo Rubine 60 T 2077.....	C		
	Azo Acid Rubine 0165. (Current marks, B, R.).....	K		
	Azo Acid Rubine 1620.....	K		
	Azo Acid Rubine 1630.....	K		
	Brilliant Crimson conc.....	M		
	Brilliant Crimson N.....	M		
	Azo Rubine S 200 per cent.....	GrE		
	Azo Rubine A extra conc.....	tM		
	Azo Acid Rubine.....	WD		
	Carmoisine conc.....	S		
163a	CARMOISINE (V. M.).....	.....	17,107	2,427
	Crimson BBT.....	By		
	Carmoisine 3 B.....	By		
	Carmoisine R.....	H		
	Carmoisine 6 B (Kal. 1908).....	H		
163b	CHROME BLUE (V. M.).....	.....	53,404	19,874
	Chrome Blue ATX.....	B		
	Chrome Blue RX.....	B		
	Azo Chrome Blue R.....	K		
	Chrome Blue 2 B.....	BK		
	Chrome Blue FBX.....	BK		
	Chrome Blue R extra.....	AW		
	Chrome Blue G extra.....	Q		
164	FAST RED VR conc. 27950.....	By	597	
	Action of diazotised naphthionic acid upon α-naphthol-5-sulphonic acid.			
164a	DIAMOND BLUE R.....	By	20,117	
165	AZO RED A.....	C	0	
	Action of diazotised naphthionic acid upon 1-naphthol-3.6-sulphonic acid. Allied to Palatine Red A, No. 109.			
166	NAPHTHOL RED GR.....1878	B	1,001	
	Sodium salt of 4-sulphonaphthalene-azo-β-naphthol-6-sulphonic acid			
	$C_{10}H_6\begin{cases}[4]SO_3Na\\[1]N=N\end{cases}-[1]C_{10}H_5\begin{cases}[2]OH\\[6]SO_3Na\end{cases}$			
166a	ACID CRIMSON (V. M.).....	.....	1,472	300
	Acid Crimson.....	S		
	Acid Crimson D.....	Q		
167	COCCINE.....1882	.....	3,101	338
	Sodium salt of 4-sulphonaphthalene-azo-β-naphthol-8-sulphonic acid.			
	$C_{10}H_6\begin{cases}[4]SO_3Na\\[1]N=N\end{cases}-[1]C_{10}H_5\begin{cases}[2]OH\\[8]SO_3Na\end{cases}$			
	Coccine 2 BG.....	A		
	Coccine 3 BG.....	A		
	Croceine Scarlet 2 BX.....	By		
	Croceine Scarlet 3 BX.....	By		
	Croceine Scarlet 3 BX conc.....	By		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
168	AMARANTH.....1878	.....	73,973	39,429
	Sodium salt of 4-sulphonaphthalene-azo-β-naphthol-disulphonic acid.			
	$C_{10}H_6\begin{cases}[4]SO_3Na\\[1]N=N-[1]C_{10}H_4\begin{cases}[2]OH\\[3]SO_3Na\\[6]SO_3Na\end{cases}\end{cases}$			
	Naphthol Red S	B		
	Naphthol Red S conc	B		
	Bordeaux S	A		
	Fast Red NS	By		
	Amaranth	C		
	Amaranth B (S. H. IV, 1401)	C		
	Amaranth 60 I 2066	C		
	Amaranth 60 K 2068	C		
	Naphthol Red 57 G 1987. (Current marks, C, EB.)	C		
	Naphthol Red 57 H 1988	C		
	Amaranth D	BK		
	Amaranth D conc. 10 per cent	BK		
	Amaranth SA	tM		
	Bordeaux conc	AW		
	Azo Rubine S	S		
168a	NAPHTHYLAMINE RED 3 BM	B	597	
168b	WOOL RED (V. M.)	.....	11,497	2,285
	Wool Red (bluish)	K		
	Wool Red (secunda)	K		
	Wool Red CS	K		
	Wool Red L	K		
	Wool Red MC	K		
	Wool Red SOC	K		
	Wool Red 1604	K		
	Wool Red 7742	BK		
169	COCHINEAL RED.....1878	.....	29,984	3,669
	Sodium salt of 4-sulphonaphthalene-azo-β-naphthol-disulphonic acid.			
	$C_{10}H_6\begin{cases}[4]SO_3Na\\[1]N=N-[1]C_{10}H_4\begin{cases}[2]OH\\[6]SO_3Na\\[8]SO_3Na\end{cases}\end{cases}$			
	New Coccine	A		
	Cochineal Red A	B		
	Brilliant Ponceau 5 R conc	By		
	Victoria Scarlet 2 R	tM		
	Victoria Scarlet 4 R	tM		
	Victoria Scarlet 4 R conc	tM		
	Ponceau 4 R	P		
	Victoria	G		
	Scarlet 50	H		
169a	CROCEINE SCARLET (V. M.)	.....	1,461	339
	Croceine Scarlet 133. (Current marks, B, 2 B, 3 B, 5 B, 7 B, 8 B, 9 B, 10 B, BX, 2 BX, 3 BX, 4 BX, O, R, RX.)	K		
	Croceine Scarlet 1612	K		
169b	PONCEAU (V. M.)	.....	200	24
	Ponceau SPJ	P		
	Ponceau W 3 R	P		
170	PONCEAU 6 R.....1881	M	0	
	Sodium salt of 4-sulphonaphthalene-azo-β-naphthol-trisulphonic acid.			
171	CHROMOTROPE 8 B.....1890	M	0	
	Sodium salt of 4-sulphonaphthalene-azo-1.8-dioxy-naphthalene-3.6-disulphonic acid.			
172	FAST BROWN.....1882	.....	1,477	304
	Sodium salt of sulphonaphthalene-azo-α-naphthol.			
	$C_6H_4\begin{cases}[1]SO_3Na\\[3]N=N-[4]C_{10}H_6[1]OH\end{cases}$			
	Fast Brown 3 B	A		
	Fast Brown	A		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
173	LITHOL RED R.....1900 Sodium salt of sulphonaphthalene-azo-β-naphthol. $C_{10}H_6\begin{cases}[1]SO_3Na\\[2]N=N-[1]C_{10}H_6[2]OH\end{cases}$	.....	214,448	$18,550
	Lithol Red R paste	B		
	Lithol Red R powder	B		
	Lithol Red R conc. lumps	B		
173a	LITHOL RED (V. M.)	.....	67,515	5,039
	Lithol Red 3 B powder (for lakes)	B		
	Lithol Red GG paste (S.; R. Staeble, 109)	B		
	Lithol Red 3 G paste.....1910	B		
	Lithol Red RG paste	B		
	Lithol Red RS powder	B		
	Lithol Red 15 per cent (sodium bisulphite comp.)	B		
174	DOUBLE BRILLIANT SCARLET.....1882 Sodium salt of sulphonaphthalene-azo-β-naphthol. $C_{10}H_6\begin{cases}[6]SO_3Na\\[2]N=N-[1]C_{10}H_6[2]OH\end{cases}$	.....	1,148	356
	Orange Red Pure (S.)	A		
	Double Brilliant Scarlet G	tM		
174a	SCARLET	.....	209,281	20,472
	Scarlet GRCL	M		
	Scarlet GRCL 25 per cent red	M		
	Scarlet M new	M		
	Scarlet R	M		
	Scarlet 2 R	M		
	Scarlet 3 R 189	M		
	Scarlet 6 R	M		
	Scarlet 6 R cryst	M		
	Scarlet 2 RCL (blue shade)	M		
	Scarlet 3 RCL (blue shade)	M		
	Scarlet 4 RZ	M		
175	PONCEAU FOR SILK Sodium salt of sulphonaphthalene-azo-β-naphthol. $C_{10}H_6\begin{cases}SO_3Na\\N=N-[1]C_{10}H_6[2]OH\end{cases}$ A mixture of β-naphthylamine-5-sulphonic acid and of β-naphthylamine-8-sulphonic acid is used in the manufacture.	P	397	
175a	PONCEAU (V. M.)	.....	330	125
	Ponceau K	I		
	Ponceau 12402	I		
176	SCARLET 2 R.....1882 Sodium salt of sulphonaphthalene-azo-α-naphthol-4-sulphonic acid. $C_{10}H_6\begin{cases}[6]SO_3Na\\[2]N=N-[2]C_{10}H_5\begin{cases}[1]OH\\[4]SO_3Na\end{cases}\end{cases}$	.....	7,713	1,089
	Scarlet 2 R	tM		
	Scarlet 2 R conc	tM		
176a	SCARLET 4 R	.....	1,642	230
	Scarlet 4 R extra conc	tM		
	Scarlet 4 R	P		
176b	BRILLIANT DOUBLE SCARLET conc. 9738	BK	827	
177	MORDANT YELLOW.....1890 Sodium salt of sulphonaphthalene-azo-salicylic acid. $C_{10}H_6\begin{cases}SO_3Na\\N=N[4]C_6H_3\begin{cases}[1]OH\\[2]CO_2Na\end{cases}\end{cases}$ Isomers of 2-naphthylamine-6-sulphonic acid, and cresotinic acid, instead of salicylic acid, are employed in the manufacture.	.....	85,003	11,280

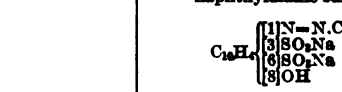
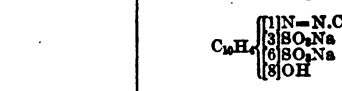
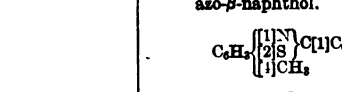
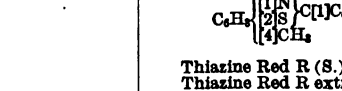
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
177	MORDANT YELLOW—Continued.			
	Chrome Fast Yellow R	A		
	Chrome Fast Yellow 2 R extra	A		
	Mordant Yellow GD powder	B		
	Mordant Yellow GS powder	B		
	Mordant Yellow R	B		
	Mordant Yellow R powder	B		
	Chrome Yellow extra	By		
	Chrome Yellow D	By		
	Chrome Yellow DF	By		
	Chrome Yellow R	By		
	Milling Yellow 3 GO	CV		
177a	ANTHRACENE YELLOW (V. M.)	.....	16,050	$3,011
	Anthracene Yellow BB 410. (Current marks, BN, C, GG, R, RN.)	C		
	Anthracene Yellow MM 420	C		
	Anthracene Yellow OO 422	C		
	Anthracene Yellow 36 R (S.; R. 67)	C		
177b	SALICINE YELLOW (V. M.)	.....	23,068	3,536
	Salicine Yellow 2503 (S.; Kal. 1908, 1909, 1914; S. H. IV, 1460). (Current marks, A, D, G, 2 G, R, VL.)	K		
	Salicine Yellow 2504	K		
	Salicine Yellow 2505	K		
	Salicine Yellow 2506	K		
	Salicine Yellow 2507	K		
	Salicine Yellow 2509	K		
177c	MILLING YELLOW (V. M.)	.....	1,270	628
	Milling Yellow H (S. H. IV, 1377). (Current mark, O.)	M		
	Milling Yellow HG	M		
	Milling Yellow H 3 G	M		
177d	CHROME FAST YELLOW BN	CG	1,653	
177e	CHROME YELLOW (V. M.)	.....	2,607	562
	Chrome Yellow R	AW		
	Chrome Yellow 13828	I		
	Chrome Yellow G	S		
	Chrome Yellow GG	S		
178	CRUMPSALL YELLOW ..... 1894 Sodium salt of disulphonaphthalene-azo-salicylic acid.	Lev	0	
179	LAKE BORDEAUX B ..... 1907 Action of diazotised 2-naphthylamine-1-sulphonic acid upon β-oxynaphthoic acid (m. p. 216°).	M	0	
180	ERIOCHROME BLUE BLACK BC ..... 1904 Sodium salt of sulpho-oxy-naphthalene-azo-α-naphthol. $C_{10}H_5\begin{cases}[1]N=N-[2]C_{10}H_5[1]OH\\ [2]OH\\ [4]SO_3Na\end{cases}$	G	43,880	
180a	ERIOCHROME BLUE BLACK G	G	13,120	
181	SALICINE BLACK U ..... 1903 Sodium or zinc salt of sulpho-oxy-naphthalene-azo-β-naphthol. $C_{10}H_5\begin{cases}[1]N=N[1]C_{10}H_5[2]OH\\ [2]OH\\ [4]SO_3Na\end{cases}$	.....	65,658	10,606
	Palatine Chrome Black 6 BX	B		
	Diamond Blue Black EB	By		
	Salicine Black U 2853	K		
	Salicine Black UL 2859	K		
	Chrome Fast Black PWBL conc	I		
	Chrome Fast Black PWRR	I		
181a	ANTHRACENE BLUE BLACK 29 D 1283 (S.). (Current marks, BE, BG, C.)	C	1,997	

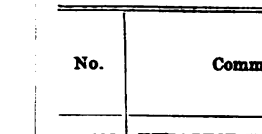
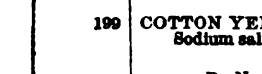
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
181b	SALICINE BLACK (V. M.)	.....	177,203	$26,945
	Salicine Black K (S.; Kal. 1905, 1908, 1910, 1911, 1913, 1914). (Current marks, AT, B, CB, CK, D, DAT, DUT, PB, PE, PEV, PET, U, UL, ULT, ULTG, US, USG, UT, UTG.)	K		
	Salicine Black LR 64295	K		
	Salicine Black S 2850	K		
	Salicine Black 067	K		
	Salicine Black 0635	K		
	Salicine Black 0675	K		
	Salicine Black 0678	K		
	Salicine Black 2850 extra	K		
	Salicine Black 2859 extra	K		
	Salicine Black 2860	K		
181c	CHROME FAST BLACK	.....	3,863	645
	Chrome Fast Black A	CG		
	Chrome Fast Black PON	CG		
	Chrome Fast Black 12172	CG		
182	BRILLIANT SULPHON RED.....1899	.....	4,871	4,289
	Transformation of azo coloring matters, derived from the action of diazotised 1-amido-4-naphthol-sulphonic acid upon chloro-benzene-sulphonic acid, or the corresponding toluene compounds, into alphyl-sulphamine colors.			
	Brilliant Sulphon Red B	S		
	Brilliant Sulphon Red 5 B (S.)	S		
	Fast Sulphon Violet 4 R	S		
183	ERIOCHROME BLACK T conc.....1904	G	139,550	
	Sodium salt of nitro-sulpho-β-naphthol-azo-α-naphthol.			
	$C_{10}H_4$ {[1]N=N[2]$C_{10}H_4$[1]OH; [2]OH; [4]SO_3Na; [8]NO_2}			
184	ERIOCHROME BLACK A.....1904	G	96,570	
	Sodium salt of nitro-sulpho-β-naphthol-azo-β-naphthol.			
	$C_{10}H_4$ {[1]N=N[1]$C_{10}H_4$[2]OH; [2]OH; [4]SO_3Na; [8]NO_2}			
185	ANTHRACENE CHROME BLACK.....1907	.....	51,577	7,869
	Sodium salt of sulpho-β-naphthol-azo-β-naphthol (or of derivatives and homologues).			
	$C_{10}H_5$ {[2]OH; [3]N=N[1]$C_{10}H_4$[2]OH; [7]SO_3Na}			
	Anthracene Chrome Black 3 K 639. (Current marks, 5 B, F, FE, P, PF, PFB, PPC, PPN, PPS, PR.)	C		
	Anthracene Chrome Black TTT 648	C		
	Anthracene Chrome Black 35 Y 1453	C		
186	LANACYL VIOLET 5 N 499 (S.; Kal. 1911). (Current marks, B, BF.).....1906	C	3,628	
	Sodium salt of disulpho-oxy-naphthalene-azo-ethyl-α-naphthylamine.			
	$C_{10}H_4$ {[8]OH; [6]SO_3Na; [3]SO_3Na; [1]N=N[1]$C_{10}H_4$[4]NH.C_2H_5}			
187	LANACYL BLUE.....1906	.....	4,200	956
	Sodium salt of disulpho-oxy-naphthalene-azo-amido-naphthol.			
	$C_{10}H_4$ {[8]OH; [6]SO_3Na; [3]SO_3Na; [1]N=N[2]$C_{10}H_5$ {[1]OH; [5]NH_2}}			
	Lanacyl Blue 5 O 500. (Current marks, BB, BN, R, RN.)	C		
	Lanacyl Blue 51 M 1841	C		
	Lanacyl Blue SIM	C		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
188	SULPHON ACID BLUE R.....1897 Sodium salt of disulpho-oxy-naphthalene-azo-phenyl-α-naphthylamine-sulphonic acid.  Sulphon Acid Blue R Sulphon Acid Blue R conc. 27660 Tolyl Blue SR	..... By By M	45,038	$11,272
189	SULPHON ACID BLUE B.....1897 Sodium salt of disulpho-oxy-naphthalene-azo-tolyl-α-naphthylamine-sulphonic acid.  Sulphon Acid Blue B Tolyl Blue SB	..... By M	35,112	8,813
189a	BRILLIANT CLOTH BLUE 1769 (S.; Kal. 1914). (Current marks, B, 2 B, G, IIIF, R.)	K	448	
190	ALKALI BROWN.....1887 Sodium salt of primuline-azo-phenylene-diamine.	WD	0	
191	PYRAMINE YELLOW R.....1902 Sodium salt of primuline-azo-nitro-m-phenylene-diamine.  (P = the radical of Primuline.)	B	5,727	
192	COTTON ORANGE G.....1893 Action of diazotised Primuline upon m-phenylene-diamine-disulphonic acid. Cotton Orange G Cotton Orange G	..... B S	1,677	399
193	STANLEY RED.....1887 Ammonium or sodium salt of sulphobenzenyl-amido-thiocresol-azo-β-naphthol. 	ClCo	100	
194	THIAZINE RED R.....1893 Sodium salt of sulphobenzenyl-amido-thiocresol-azo-α-naphthol-sulphonic acid.  Thiazine Red R (S.) Thiazine Red R extra conc	..... B B	3,077	1,247
195	ROSOPHENINE SG Sodium salt of primuline-azo-1-naphthol-4-sulphonic acid.	ClCo	0	
196	TITAN RED.....1890 Derived from dehydro-thio-p-toluidine-sulphonic acid. Titan Red (similar to Titan Pink) Titan Scarlet Y (similar to Titan Pink)	..... H H	646	199
196a	SCARLET C	Q	240	42
197	THIAZINE RED G Sodium salt of primuline-azo-β-naphthol-6-sulphonic acid.  (P = the radical of Primuline.)	B	4,861	

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
198	THIAZINE YELLOW.....1887 Sodium salt of the diazo-amido compound of dehydrothiotoluidine-sulphonic acid, or of the mixed diazo-amido compound of dehydrothiotoluidine-sulphonic acid and Primuline.  (From dehydrothiotoluidine-sulphonic acid alone.)	.....	29,879	$3,410
	Thiazine Yellow G	By		
	Thiazine Yellow G conc. 9681	By		
	Thiazine Yellow GL (S.; Kal. 1907)	By		
	Thiazine Yellow 3 G	By		
	Oxy Diamine Yellow 24 B 1156. (Current marks, GG, NY, TZ.)	C		
	Oxy Diamine Yellow 40 N 1567	C		
	Mimosa C	G		
	Mimosa 2 conc	G		
	Mimosa superfine	G		
	Thiazol Yellow conc	S		
	Clayton Yellow 5 per cent	ClCo		
	Titan Yellow Y (S. H. IV, 1530)	H		
199	COTTON YELLOW R.....1888 Sodium salt of primuline-azo-salicylic acid.  (P=the radical of Primuline, or of dehydro-thio-p-toluidine-sulphonic acid.)	.....	9,205	2,263
	Cotton Yellow R	B		
	Alkali Yellow	AW		
	Alkali Yellow conc	AW		
	Oriol Yellow EC	G		
199a	ALKALI FAST YELLOW	WD	133	
199b	COTTON YELLOW	Q	4,079	1,321
200	LAKE RED D.....1905 Action of diazotised anthranilic acid upon β-naphthol.	M	2,428	
201	PIGMENT SCARLET G Action of diazotised anthranilic acid upon β-naphthol-6-sulphonic acid.	M	0	
202	PALATINE CHROME RED B.....1902 From the action of diazotised anthranilic acid upon β-naphthol-3.6-disulphonic acid.	B	7,374	
203	YELLOW FAST-TO-SOAP.....1884 Sodium salt of m-carboxy-benzene-azo-diphenylamine.	P	0	
204	DIAMOND YELLOW G.....1889 Sodium salt of m-carboxy-benzene-azo-salicylic acid.	By	0	
205	DIPHENYL CHRYSOÏNE RR.....1899 Diazotisation of the alkaline condensation-product of dinitro-dibenzyl-disulphonic acid and aniline, combination of the diazo compound with phenol, and ethylation.	G	0	
206	DIPHENYL CATECHINE.....1899 Diazotisation of the alkaline condensation-product of dinitro-dibenzyl-disulphonic acid and aniline, and combination of the diazo compound with dimethyl-amidonaphthol-sulphonic acid γ.	.....	8,642	2,569
	Diphenyl Catechine G (S)	G		
	Diphenyl Catechine G superfine	G		
207	DIPHENYL FAST BROWN GNC (S.; S. H. IV, 1799).....1899 Diazotisation of the alkaline condensation-product of dinitro-dibenzyl-disulphonic acid and aniline, and combination of the diazo compound with phenyl-amidonaphthol-sulphonic acid γ.	G	992	

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
	B. DISAZO COLORS.			
	1. Primary disazo colors.			
	Type: $\left.\begin{matrix}R\\R'\end{matrix}\right\}K$			
	(R and R′ represent the same or different diazo compounds which act upon a third totally different compound.)			
208	LEATHER BROWN.....1890 Hydrochloride of bi-p-amidobenzene-disazo-m-phenylene-diamine. $C_6H_4\left\{\begin{matrix}[4]NH_2\\[1]N=N\end{matrix}\right\}C_6H_2\left\{\begin{matrix}[1]NH_2HCl\\[3]NH_2\end{matrix}\right.$ $C_6H_4\left\{\begin{matrix}[1]N=N\\[4]NH_2\end{matrix}\right.$	GrE	500	
209	TERRA COTTA FC.....1890 Sodium salt of primuline-azo-m-phenylene-diamine-azo-naphthalene-4-sulphonic acid. $C_{10}H_6(SO_3Na)-N=N\left\{\begin{matrix}P-N=N\\\end{matrix}\right\}C_6H_2(NH_2)_2$ (P=residue of Primuline or dehydrothiotoluidine-sulphonic acid.)	G	551	
210	COTTON ORANGE R.....1893 Sodium salt of primuline-azo-disulpho-m-phenylene-diamine-azo-benzene-m-sulphonic acid. $C_6H_4\left\{\begin{matrix}P-N=N\\[1]N=N\\[3]SO_3Na\end{matrix}\right.C_6(NH_2)_2(SO_3Na)_2$ (P=the radical of Primuline.)	B	9,997	
210a	COTTON ORANGE (V. M.).....	.....	1,200	$393
	Cotton Orange 173 A.....	Lev		
	Cotton Orange 193.....	Lev		
210b	COTTON ORANGE BROWN (V. M.).....	.....	4,543	379
	Cotton Orange Brown 21 A.....	Lev		
	Cotton Orange Brown 175.....	Lev		
210c	COTTON ORANGE.....	Q	720	131
211	RESORCIN BROWN.....1881 Sodium salt of xylene-azo-resorcin-azo-benzene-p-sulphonic acid. $C_6H_3\left\{\begin{matrix}(CH_3)_2\\[1]N=N-[2]C_6H_2\end{matrix}\right.\left\{\begin{matrix}[1]OH\\[3]OH\\[4]N=N-[1]C_6H_4[4]SO_3Na\end{matrix}\right.$	.....	13,189	2,549
	Resorcin Brown.....	A		
	Resorcin Brown 9974.....	B		
	Resorcin Brown 1902.....	K		
	Resorcin Brown 6329.....	BK		
	Resorcin Brown 9740.....	BK		
	Resorcin Brown.....	WD		
	Resorcin Brown.....	AW		
	Resorcin Brown QV.....	G		
	Resorcin Brown.....	H		
212	ACID BROWN.....1882 Sodium salt of bi-sulphobenzene-disazo-α-naphthol. $C_6H_4\left\{\begin{matrix}[4]SO_3Na\\[1]N=N[2]\end{matrix}\right\}C_{10}H_5[1]OH$ $C_6H_4\left\{\begin{matrix}[1]N=N[4]\\[4]SO_3Na\end{matrix}\right.$	.....	2,702	317
	Fast Brown G.....	A		
	Acid Brown Y.....	P		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
212a	ACID BROWN (V. M.)	.....	14,706	$3,236
	Acid Brown DC. (Current marks, G, B, 2 B, R.)	K		
	Acid Brown R 805 (S.)	K		
	Acid Brown SR	K		
	Acid Brown RN 532	G		
	Acid Brown V	I		
213	FAST BROWN.....1881 Sodium salt of bi-sulphonaphthalene-disazo-resorcin. $C_{10}H_6\{[4]SO_3Na,[1]N=N[2]\}C_6H_3\{[1]OH,[3]OH\}$ $C_{10}H_6\{[1]N=N[4],[4]SO_3Na\}$	By	3,205	
214	FAST BROWN O.....1879 Sodium salt of bi-sulpho-xylene-disazo-α-naphthol. $C_6H_2(CH_3)_2(SO_3Na)-N=N[2]\}C_{10}H_6[1]OH$ $C_6H_2(CH_3)_2(SO_3Na)-N=N[4]\}$	M	2,000	
215	BLUE BLACK N.....1896 Sodium salt of p-nitro-benzene-azo-disulpho-amido-naphthol-azo-benzene. $C_6H_4\{[4]NO_2,[1]-N=N[2]\}C_{10}H_3\{[1]NH_2,[4]SO_3Na,[6]SO_3Na,[8]OH\}$ $C_6H_5-N=N[7]\}$	K	2,653	
216	DOMINGO BLUE BLACK B.....1899 Sodium salt of p-nitro-benzene-azo-3.5-disulpho-1-amido-8-naphthol-azo-benzene.	L	0	
217	AGALMA BLACK 10 B.....1891 Sodium salt of p-nitro-benzene-azo-disulpho-amido-naphthol-azo-benzene. $C_6H_4\{[4]NO_2,[1]-N=N[2]\}C_{10}H_3\{[1]NH_2,[8]OH,[3]SO_3Na,[6]SO_3Na\}$ $C_6H_5-N=N[7]\}$	.....	40,763	7,518
	Agalma Black 10 BX	B		
	Naphthol Blue Black M conc	By		
	Naphthylamine Black 10 B extra	By		
	Amido Black 10 B	M		
	Wool Black GG	tM		
	Coomassie Blue Black	Lev		
217a	AGALMA BLACK (V. M.)	.....	13,665	2,359
	Agalma Black 201211 easily soluble	B		
	Agalma Black 4 BX (S. 1908)	B		
217b	AGALMA BLACK GREEN T	B	1,971	
217c	NAPHTHOL BLUE BLACK (V. M.)	.....	62,864	8,864
	Naphthol Blue Black 33 F. (Current marks A, 6, B 15 B, BN, FG, S, SB, S 2 B, S 3 B.)	C		
	Naphthol Blue Black 17 H 987	C		
	Naphthol Blue Black 49 H 1787	C		
	Naphthol Blue Black 13 L 890	C		
	Naphthol Blue Black U 92	C		
	Naphthol Blue Black UU 516	C		
217d	NAPHTHYLAMINE BLACK (V. M.)	.....	122,561	12,240
	Naphthylamine Black 4 AN (Kal. 1908).....1907	By		
	Naphthylamine Black 4 B (Kal. 1905).....1904	By		
	Naphthylamine Black 4 B conc	By		
	Naphthylamine Black 4 BK (Kal. 1905).....1904	By		
	Naphthylamine Black 4 BK conc	By		
	Naphthylamine Black 4 BN (Kal. 1907)	By		
	Naphthylamine Black 6 BN (Kal. 1907)	By		
	Naphthylamine Black CSB (Kal. 1911)	By		
	Naphthylamine Black CSR conc. (Kal. 1911)	By		
	Naphthylamine Black F (S.; Kal. 1912)	By		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
217e	ACID BLACK (V. M.)		47,489	$7,547
	Acid Black 2034	K		
	Acid Black 2195	BK		
	Acid Black M conc	BK		
	Acid Black 6 BA 125 per cent	CG		
	Acid Black	AW		
	Acid Black 4 BD conc	CG		
	Acid Black AO	I		
	Acid Black D conc. 153 per cent	I		
	Acid Black G conc	I		
	Acid Black HA conc. 7 per cent	I		
	Acid Black HAS conc. 8 per cent	I		
	Acid Black H conc. (Kal. 1905)	S		
	Acid Black SO conc. (Kal. 1905)	S		
217f	AMIDO BLACK (V. M.)		105,005	10,063
	Amido Black A 2 G (S.; Kal. 1911)	M		
	Amido Black A 2 G conc	M		
	Amido Black 4024	M		
217g	WOOL BLACK (V. M.)		23,371	4,906
	Wool Black 6 A conc	tM		
	Wool Black 6 A extra conc	tM		
	Wool Black 6 AN	tM		
	Wool Black 10 B extra conc. (Kal. 1904)	tM		
	Wool Black HN extra	tM		
217h	ACID WOOL BLACK extra conc. 1021	Q	13,513	4,202
218	NIGROPHOR.....1896 Sodium salt of p-nitro-benzene-azo-5-sulpho-1-amido-8-naphthol-azo-2.5-dichloro-benzene.	B	0	
219	CHROME PATENT GREEN N.....1898 Sodium salt of 4.6-dinitro-1-oxy-benzene-azo-4.6-disulpho-1-amido-8-naphthol-azo-benzene.	K	0	
220	PALATINE BLACK.....1891 Sodium salt of p-sulpho-benzene-azo-4-sulpho-amido-naphthol-azo-naphthalene. $C_6H_4\begin{cases}[4]SO_2Na\\[1]N=N[2]\end{cases}C_{10}H_5\begin{cases}[1]NH_2\\[8]OH\\[4]SO_3Na\end{cases}$ $C_{10}H_7[1]N=N[7]$		148,203	15,169
	Wool Black 4 B	A		
	Wool Black 4 BX	A		
	Wool Black 4 BC	A		
	Wool Black 4 BC strong 50 : 100	A		
	Wool Black 4 BFL	A		
	Wool Black 6 B	A		
	Wool Black 6 BS	A		
	Palatine Black 4 B	B		
	Palatine Black 3 GX	B		
	Palatine Black MZ	B		
	Palatine Black SF	B		
	Palatine Black SFM (S.)	B		
220a	AMIDO ACID BLACK (V. M.)		32,624	3,614
	Amido Acid Black B (S.; Kal. 1905; S. H. IV, 2425)	A		
	Amido Acid Black BS (S.)	A		
	Amido Acid Black 4 B	A		
220b	WOOL BLACK (V. M.)		110,244	16,868
	Wool Black B	A		
	Wool Black 2 B	A		
	Wool Black G extra	A		
	Wool Black GR.....1897	A		
	Wool Black GRF	A		
	Wool Black 3 B	Lev		
	Wool Black 3015	Lev		
	Wool Black 3045	Lev		
	Wool Black 4524	Lev		
	Wool Black MX	Q		
	Wool Black 5468	Q		
	Wool Black 5883	Q		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
220c	WOOL JET BLACK		3,203	$1,019
	Wool Jet Black 3 B (S.; S. H. IV, 853) 1897	A		
	Wool Jet Black 3 B (old type) (S.; S. H. IV, 853) 1897	A		
221	ANTHRACENE ACID BROWN G 1896 From the action of diazotised sulphanilic acid, and diazotised p-nitraniline upon salicylic acid.	C	0	
222	JANUS YELLOW G 1897 A basic disazo color.	M	2,250	
	2. Secondary disazo colors.			
	Type: R → K → K'.			
	(R is diazotised and reacts with K. The product is diazotised and reacts with K'.)			
223	SUDAN III 1879 Benzene-azo-benzene-azo-β-naphthol.		1,047	178
	$C_6H_5-N=N-C_6H_4-N=N-C_{10}H_6OH\beta$			
	Sudan III	A		
	Cerasine Red 56 G 1961. (Current marks, I, II, III, A, B.)	C		
	Cerasine Red 56 H 1962	C		
	Cerasine Red 56 I 1963	C		
223a	CERASINE DARK RED I and II	C	701	
223b	SCARLET 6 R Crystals	BK	661	
224	CLOTH RED G 1883 Sodium salt of benzene-azo-benzene-azo-α-naphthol-4-sulphonic acid.	By	401	
	$C_6H_5-N=N-C_6H_4-N=N-[2]C_{10}H_5\begin{cases}[1]OH\\[4]SO_3Na\end{cases}$			
225	CROCEINE AZ Action of diazotised amido-azo-benzene upon α-naphthol-3.6-disulphonic acid.	C	500	
226	CROCEINE B 1884 Sodium salt of benzene-azo-benzene-azo-α-naphthol-disulphonic acid.	Sch	0	
	$C_6H_5-N=N-C_6H_4-N=N-[2]C_{10}H_4\begin{cases}[1]OH\\[4]SO_3Na\\[8]SO_3Na\end{cases}$			
227	BRILLIANT CROCEINE 1882 Sodium salt of benzene-azo-benzene-azo-β-naphthol-disulphonic acid.		122,058	20,333
	$C_6H_5-N=N-C_6H_4-N=N-[1]C_{10}H_4\begin{cases}[2]OH\\[6]SO_3Na\\[8]SO_3Na\end{cases}$			
	Ponceau BO extra	A		
	Cotton Scarlet extra (S.; S. H. IV, 840)	B		
	Cotton Scarlet NP extra	B		
	Cotton Scarlet NPX extra	B		
	Cotton Scarlet NPX	B		
	Brilliant Croceine 3 B	By		
	Brilliant Croceine 3 BA conc	By		
	Brilliant Croceine 61 R 2101. (Current marks, B, 2 B, 3 B, 5 B, 6 B, 7 B, 9 B, 10 B, BOO, M, MOO, PA, R, ROO.)	C		
	Brilliant Croceine 61 U 2104	C		
	Brilliant Croceine NZ	M		
	Brilliant Croceine MD	GrE		
227a	COCCEINE ORANGE	P	399	
227b	COTTON SCARLET	Q	1,680	273

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
228	ERYTHRINE P.....1881 Sodium salt of benzene-azo-benzene-azo-β-naphthol-3.6.8-trisulphonic acid. $C_6H_5-N=N-C_6H_4-N=N-C_{10}H_5\begin{cases}OH[8]\\(SO_3Na)_3\end{cases}$	B	2,880	
229	AZO ACID VIOLET.....1880 From the action of diazotised amido-azo-benzene (and similar compounds) upon 1.8-dioxy-naphthalene-4-sulphenic acid (or upon 1.8-dioxy-naphthalene-disulphonic acid). Azo Acid Violet A 2 B..... Azo Acid Violet AL.....	..... By By	150	240
230	CLOTH RED 3 GA.....1888 Sodium salt of toluene-azo-toluene-azo-β-naphthylamine-sulphonic acid. $C_6H_4\begin{cases}CH_3\\N=N-C_6H_3\end{cases}\begin{cases}CH_3\\N=N-[1]C_{10}H_5\end{cases}\begin{cases}[2]NH_2\\[6]SO_3Na\end{cases}$	A	251	
231	CLOTH RED 3 B extra.....1886 Sodium salt of toluene-azo-toluene-azo-ethyl-β-naphthylamine-7-sulphonic acid. $C_6H_4\begin{cases}CH_3\\N=N-C_6H_3\end{cases}\begin{cases}CH_3\\N=N-[1]C_{10}H_5\end{cases}\begin{cases}[2]NH(C_2H_5)\\[7]SO_3Na\end{cases}$	By	15	
232	SUDAN IV..... Toluene-azo-toluene-azo-β-naphthol. $C_6H_4\begin{cases}CH_3\\N=N-C_6H_3\end{cases}\begin{cases}CH_3\\N=N-[1]C_{10}H_4[2]OH\end{cases}$	A	51	
233	CLOTH RED B.....1879 Sodium salt of toluene-azo-toluene-azo-α-naphthol-4-sulphonic acid. $C_6H_4\begin{cases}CH_3\\N=N-C_6H_3\end{cases}\begin{cases}CH_3\\N=N-[2]C_{10}H_5\end{cases}\begin{cases}[1]OH\\[4]SO_3Na\end{cases}$	By	969	
233a	CLOTH RED BC (S.; Kal. 1910).....	By	1,093	
234	CLOTH RED G.....1879 Sodium salt of toluene-azo-toluene-azo-β-naphthol-6-sulphonic acid. $C_6H_4\begin{cases}CH_3\\N=N-C_6H_3\end{cases}\begin{cases}CH_3\\N=N-[1]C_{10}H_5\end{cases}\begin{cases}[2]OH\\[6]SO_3Na\end{cases}$ Cloth Red GA..... Cloth Red GFL (S.).....1912 Cloth Red GL (S.; Kal. 1914).....1912 Cloth Red G extra.....	..... A A A By	554	122
235	CROCEINE 3 B.....1884 Sodium salt of toluene-azo-toluene-azo-α-naphthol-4.8-disulphonic acid. $C_6H_5\begin{cases}CH_3\\N=N-C_6H_3\end{cases}\begin{cases}CH_3\\N=N-[2]C_{10}H_4\end{cases}\begin{cases}[1]OH\\[4]SO_3Na\\[8]SO_3Na\end{cases}$	Sch	0	
236	WOOL RED B.....1879 Sodium salt of toluene-azo-toluene-azo-β-naphthol-3.6-disulphonic acid. $C_6H_4\begin{cases}CH_3\\N=N-C_6H_3\end{cases}\begin{cases}CH_3\\N=N-[1]C_{10}H_4\end{cases}\begin{cases}[2]OH\\[3]SO_3Na\\[6]SO_3Na\end{cases}$ Cloth Red BA..... Wool Red 57 M 1993 (S.; S. H. IV, 1395). (Current marks, B, BG.) Cloth Red O..... Cloth Red B..... Cloth Red BO..... Cloth Red 2 B..... Cloth Red 2 B conc.....	..... A C M GrE GrE WD WD	13,245	1,942

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
236a	FAST BORDEAUX	......	888	904
	Fast Bordeaux B conc.	BK		
	Fast Bordeaux G conc.	BK		
236b	WOOL RED C	S	165	
237	BORDEAUX BX ... 1879 Sodium salt of xylene-azo-xylene-azo-β-naphthol-6-sulphonic acid.	By	0	
238	UNION FAST CLARET ... 1879 Sodium salt of xylene-azo-xylene-azo-β-naphthol-3.6-disulphonic acid.	Lev	0	
239	AZOTOL C ... 1896 Action of diazotised amido-chrysoidine upon β-naphthol.	C	0	
240	JANUS RED B ... 1896 Chloride of trimethyl-amido-benzene-azo-m-toluene-azo-β-naphthol. $C_6H_4\begin{cases}[3]N(CH_3)_3Cl\\ [1]N=N-C_6H_3\begin{cases}CH_3\\ N=N-C_{10}H_6.OH\beta\end{cases}\end{cases}$	M	250	
241	NEUTRAL GRAY G ... 1894 Action of diazotised benzene-azo-α-naphthylamine upon 2-amido-8-naphthol-6-sulphonic acid (G acid).	A	2,546	
242	SULPHON BLACK G ... 1895 Action of diazotised benzene-azo-naphthylamine-sulphonic acid (Cleve's acid) upon 1.8-dioxy-naphthalene-4-sulphonic acid.	By	0	
243	COOMASSIE WOOL BLACK R ... 1899 Sodium salt of amidobenzene-azo-naphthalene-azo-β-naphthol-6-sulphonic acid.	Lev	0	
244	COOMASSIE WOOL BLACK S ... 1899 Sodium salt of amidobenzene-azo-naphthalene-azo-β-naphthol-6.7-disulphonic acid.	Lev	0	
245	NYANZA BLACK B ... 1892 Sodium salt of amidobenzene-azo-naphthalene-azo-7-amido-1-naphthol-3-sulphonic acid.	A	0	
246	CLOTH SCARLET G ... 1878 Sodium salt of sulphobenzene-azo-benzene-azo-β-naphthol. $C_6H_4\begin{cases}[4]SO_3Na\\ [1]N=N-C_6H_4-N=N-[1]C_{10}H_6[2]OH\end{cases}$	K	9	
247	SCARLET ... 1879 Sodium salt of sulphobenzene-azo-sulphobenzene-azo-β-naphthol. $C_6H_4\begin{cases}[4]SO_3Na\\ [1]N=N-C_6H_3\begin{cases}SO_3Na\\ N=N-[1]C_{10}H_6[2]OH\end{cases}\end{cases}$	......	36,598	4,296
	Ponceau 3 RB extra	A		
	Scarlet EC 59 R 2050. (Current marks, EC, FR, FS, MS, RBC.).	C		
	Scarlet 59 S 2051	C		
	Scarlet 59 T 2052	C		
	Scarlet 59 U 2053	C		
247a	PONCEAU S (S.; S. J. IV, 181)	A	49	
247b	IMPERIAL SCARLET 3 B	By	2,776	
247c	SCARLET for silk S	P	99	
248	FAST SCARLET B ... 1879 Sodium salt of sulphobenzene-azo-benzene-azo-β-naphthol-6-sulphonic acid. $C_6H_4\begin{cases}[4]SO_3Na\\ [1]N=N-C_6H_4-N=N-[1]C_{10}H_5\begin{cases}[2]OH\\ [6]SO_3Na\end{cases}\end{cases}$	K	1,755	

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
249	CROCEINE SCARLET ..... 1881 Sodium salt of sulphobenzene-azo-benzene-azo-β-naphthol-8-sulphonic acid. 	.....	2,348	$374
	Ponceau 4 RB extra	A		
	Erythrine RR	B		
	Croceine Scarlet 3 B	By		
249a	CROCEINE SCARLET 10 B	By	7,275	
250	MILLING ORANGE Sodium salt of sulphobenzene-azo-benzene-azo-salicylic acid. 	.....	4,157	1,278
	Milling Orange JN conc	WD		
	Milling Orange 88	WD		
250a	FULLING ORANGE 16700	I	220	
251	CROCEINE SCARLET O ..... 1888 Sodium salt of sulphobenzene-azo-sulphobenzene-azo-β-naphthol-8-sulphonic acid.	K	0	
252	CLOTH SCARLET R ..... 1878 Sodium salt of sulphotoluene-azo-toluene-azo-β-naphthol.	K	0	
253	ORSEILLINE BB ..... 1883 Sodium salt of sulphotoluene-azo-toluene-azo-α-naphthol-4-sulphonic acid.	By	0	
254	BORDEAUX G ..... 1879 Sodium salt of sulphotoluene-azo-toluene-azo-β-naphthol-6-sulphonic acid.	By	0	
255	PONCEAU 6 RB ..... 1881 Sodium salt of sulphotoluene-azo-toluene-azo-β-naphthol-8-sulphonic acid. 	.....	2,379	762
	Ponceau 6 RB extra	A		
	Erythrine 7 B	B		
	Croceine Scarlet 7 B	By		
	Croceine Scarlet 8 BL	K		
256	SULPHON BLACK 3 B ..... 1896 Action of diazotised m-sulphobenzene-azo-α-naphthylamine upon phenyl-1-naphthylamine-8-sulphonic acid.	By	0	
257	SULPHONCYANINE ..... 1892 Action of diazotised m-sulphobenzene-azo-α-naphthylamine upon phenyl- and tolyl-α-naphthylamine-8-sulphonic acid.	.....	86,911	14,119
	Sulphoncyanine G	By		
	Sulphoncyanine GR extra	By		
	Sulphoncyanine 5 R	By		
	Sulphoncyanine 5 R extra	By		
	Sulphoncyanine 5 R extra conc. 27670	By		
	Sulphoncyanine 5 RT extra (Kal. 1913)	By		
	Tolyl Blue 5 R extra	M		
257a	SULPHONCYANINE (V. M.)	.....	47,533	7,959
	Sulphoncyanine BB conc	B		
	Sulphoncyanine GR extra	B		
	Sulphoncyanine 5 R extra	B		
	Sulphoncyanine SR extra	B		
257b	TOLYL BLUE (V. M.)	.....	11,250	2,007
	Tolyl Blue ST (S.; Kal. 1912)	M		
	Tolyl Blue 7656 new	M		

V. AZO COLORING MATTERS—Continued

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
258	NAPHTHALENE ACID BLACK 4 B.....1899 Action of diazotised m-sulphobenzene-azo-α-naphthylamine-6-(or -7)-sulphonic acid upon α-naphthylamine. $NaSO_3.C_6H_4-N=N[2]C_{10}H_5\begin{cases}[2]N=N[2]C_{10}H_4[1]NH_2\\[6]SO_3Na\end{cases}$	By	7,894	
259	PONCEAU 10 RB extra.....1893 Action of diazotised sulphobenzene-azo-o-anisidine upon 2-naphthol-8-sulphonic acid.	A	291	
260	ERIOCHROME VERDON S conc. (Kal. 1914).....1907 Action of diazotised sulphobenzene-azo-m-amido-p-cresol upon β-naphthol. $NaSO_3.C_6H_4-N=N-C_7H_6(OH)-N=N-C_{10}H_6[2]OH$	G	282	
261	BUFFALO BLACK 10 B.....1899 Action of diazotised sulphobenzene-azo-α-naphthylamine upon 1-amido-2-naphthol-3.6-disulphonic acid.	Scb	0	
262	VICTORIA BLACK.....1889 Sodium salt of sulphobenzene-azo-naphthalene-azo-dioxynaphthalene-sulphonic acid. $C_6H_4\begin{cases}[4]SO_3Na\\[1]N=N[1]C_{10}H_6[4]N=N[2]C_{10}H_5\begin{cases}[1]OH\\[8]OH\\[4]SO_3Na\end{cases}\end{cases}$	.....	557	$113
	Victoria Black B.....	By		
	New Victoria Black B.....	By		
263	JET BLACK R.....1888 Sodium salt of disulphobenzene-azo-α-naphthalene-1-azophenyl-4-naphthylamine.	By	0	
264	FAST SULPHON BLACK F.....1903 Action of diazotised 4-sulphonaphthalene-azo-1-amido-8-naphthol-3.6-disulphonic acid upon β-naphthol.	S	0	
265	SULPHONCYANINE BLACK.....1902 Action of diazotised 5-sulphonaphthalene-azo-α-naphthylamine upon phenyl-1-naphthylamine-8-sulphonic acid.	.....	63,551	6,762
	Sulphoncyanine Black B.....	By		
	Sulphoncyanine Black 2 B.....	By		
	Tolyl Black B conc.....	M		
	Tolyl Black BB.....	M		
	Tolyl Black BG conc. (Kal. 1911).....	M		
265a	SULPHONCYANINE BLACK (V. M.).....	.....	6,089	915
	Sulphoncyanine Black BB.....	B		
	Sulphoncyanine Black GR extra.....	B		
266	NAPHTHYLAMINE BLACK.....1888 Sodium salt of 3.6-disulphonaphthalene-azo-α-naphthalene-azo-α-naphthylamine. $C_{10}H_5\begin{cases}[3]SO_3Na\\[6]SO_3Na\\[1]N=N-[4]C_{10}H_6[1]N=N-[1]C_{10}H_6[4]NH_2\end{cases}$	.....	45,723	5,989
	Naphthylamine Black 16 A 955 (S.; S. H. IV, 1434). (Current marks, 4 B, 6 B, CR, D, ES 3 B, ES 5 B, ESN, R, S, SGG, T.).....	C		
	Naphthylamine Black 23 D 1133.....	C		
	Naphthylamine Black EE 501.....	C		
	Naphthylamine Black 31 K 1339.....	C		
	Naphthylamine Black T 91.....	C		
	Naphthylamine Black 44 T 1673.....	C		
	Naphthylamine Black 4 X 569.....	C		
	Coomassie Wool Black D.....	Lev		
266a	NAPHTHYLAMINE BLACK (V. M.).....	.....	106,403	15,914
	Naphthylamine Black 4 BX.....	B		
	Naphthylamine Black 8X.....	B		
	Naphthylamine Black B 2 N.....	K		
	Naphthylamine Black BOO.....	K		
	Naphthylamine Black NA.....	K		
	Naphthylamine Black NSBN.....	K		
	Naphthylamine Black 2002.....	K		
	Naphthylamine Black 2003.....	K		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
267	ANTHRACITE BLACK K 83 (R. 54).....1889 Sodium salt of 4.7-disulphonaphthalene-azo-α-naphthalene-azo-diphenyl-m-phenylene diamine. $C_{10}H_5\begin{cases}[4]SO_3Na\\[7]SO_3Na\\[1]N=N[4]C_{10}H_4[1]N=N[1]C_6H_3\begin{cases}[2]NHC_6H_5\\[4]NHC_6H_5\end{cases}\end{cases}$	C	99	
268	NAPHTHYL BLUE BLACK N.....1896 Action of diazotised 4.6(7)-sulphonaphthalene-azo-α-naphthylamine ethyl ether upon α-naphthylamine.	C	0	
269	ACID BLACK.....1885 Sodium salt of 4.6(7)-disulphonaphthalene-azo-α-naphthalene-azo-β-naphthol-3.6-disulphonic acid. $C_{10}H_5\begin{cases}[1]N=N[4]C_{10}H_4[1]N=N[1]C_{10}H_4\begin{cases}[2]OH\\[3]SO_3Na\\[6]SO_3Na\end{cases}\\[4]SO_3Na\\[6]SO_3Na\end{cases}$	.....	17,437	23,429
	Wool Black DW new	BK		
	Wool Black 9904	BK		
	Acid Black BR extra conc	tM		
	Acid Black BR extra	tM		
	Naphthol Black BR	tM		
	Naphthol Black BR extra fine powder	tM		
269a	NAPHTHOL BLACK (V.M.)	.....	83,502	13,634
	Naphthol Black A	K		
	Naphthol Black CR	K		
	Naphthol Black MB	K		
	Naphthol Black N	K		
	Naphthol Black TR	K		
	Naphthol Black greenish	K		
	Naphthol Black 054	K		
	Naphthol Black 2014	K		
	Naphthol Black 2027	K		
	Naphthol Black 2029	K		
269b	BLUE BLACK (V. M.)	.....	625	173
	Blue Black solid B (S. J. 4th ed., 198) (formula)	M		
	Blue Black O (S.; S. H. IV, 881; S. J. 4th ed., 198) (formula)	M		
269c	ACID BLACK (V. M.)	.....	18,225	2,336
	Acid Black BR extra conc. 261 SJD	G		
	Acid Black M	H		
	Acid Black M conc	H		
	Acid Black 32	H		
	Acid Black AS	Q		
	Acid Black EW	Q		
	Acid Black KB	Q		
269d	NAPHTHOL BLACK 2 B (S.; S. H. IV, 1437).....1901	By	723	
270	BRILLIANT CROCEINE 9 B.....1886 Sodium salt of 6.8-disulpho-β-naphthalene-azo-benzene-azo-β-naphthol-disulphonic acid.	C	0	
271	DIAMINE BLUE 6 G.....1889 Sodium salt of 6.8-disulpho-β-naphthalene-azo-ethoxy-α-naphthalene-azo-β-naphthol.	C	0	
272	BRILLIANT BLACK.....1885 Sodium salt of disulpho-β-naphthalene-azo-α-naphthalene-azo-β-naphthol-disulphonic acid. $C_{10}H_5\begin{cases}[8]SO_3Na\\[6]SO_3Na\\[2]N=N[4]C_{10}H_4[1]N=N[1]C_{10}H_4\begin{cases}[2]OH\\[3]SO_3Na\\[6]SO_3Na\end{cases}\end{cases}$	.....	39,454	5,568
	Brilliant Black B	B		
	Brilliant Black 3 B	B		
	Brilliant Black G	B		
	Carbon Black 4 B	M		

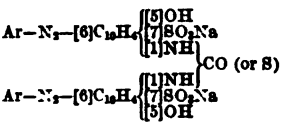
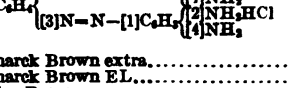
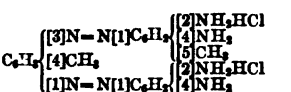
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
272a	NAPHTHOL BLACK (V. M.)	.....	48,388	$5,302
	Naphthol Black 24 A 1155. (Current marks, B, BB, 3 B, 4 B, 6 B, 12 B, BDF, BGN, P, 4 R.)	C		
	Naphthol Black C 75	C		
	Naphthol Black 67 D 2242	C		
	Naphthol Black C 79	C		
	Naphthol Black D 76	C		
	Naphthol Black 52 Y 1878	C		
	Naphthol Black F 78	C		
	Naphthol Black G 79	C		
	Naphthol Black 3 B	CV		
272b	WOOL BLACK (V. M.)	.....	15,756	3,596
	Wool Black NP	CG		
	Wool Black SG	GrE		
	Wool Black BB double	AW		
	Wool Black 4 B	AW		
	Wool Black 11714	I		
	Wool Black NN	I		
273	DIAMINOGEN BLUE 1895	.....	8,306	1,754
	Sodium salt of 7-sulpho-1.4-naphthylamine-azo-α-naphthalene-azo-2-naphthol-6-sulphonic acid.			
	$C_{10}H_5\begin{cases}[1]NH_2\\[4]N=N[2]C_{10}H_4[1]N=N-C_{10}H_5\begin{cases}[2]OH\\[6]SO_3Na\end{cases}\\[7]SO_3Na\end{cases}$			
	Diaminogen Blue 16 E 959 (S.). (Current marks, BB, G, NA, NB, RA, 2 RA, 2 RN, 3 RN, 6 RN.)	C		
	Diaminogen Blue 18 G 1011	C		
	Diaminogen Blue 4 W 483	C		
	Diaminogen Blue 4 X 484	C		
	Diaminogen Blue 18 Y 1023	C		
274	DIAMINOGEN 1893	.....	205,944	56,201
	Sodium salt of sulphoamido-naphthalene-azo-naphthalene-azo-β-naphthol-6-sulphonic acid.			
	$C_{10}H_6\begin{cases}[1]NH_2\\[6\ \&\ 7]SO_3Na\\[4]N=N[4]C_{10}H_4[1]N=N[1]C_{10}H_5\begin{cases}[2]OH\\[6]SO_3Na\end{cases}\end{cases}$			
	Diaminogen 41 O 1593. (Current marks, B, BB, BR, BW, CCL, CF.)	C		
	Diaminogen 8S 514	C		
	Diaminogen TT 515	C		
	Diaminogen 54 X 1927	C		
274a	DIAZO INDIGO BLUE (V. M.)	.....	7,484	1,730
	Diazo Indigo Blue BR (S.; S. H. IV, 1665) 1901	By		
	Diazo Indigo Blue BR extra (S.; S. H. IV, 1665) 1901	By		
	Diazo Indigo Blue 2 RL (S.; S. H. IV, 1666) 1904	By		
	Diazo Indigo Blue 3 RL (S.; S. H. IV, 1666) 1904	By		
274b	ZAMBESI PURE BLUE 4 B (S.; Kal. 1903; S. H. IV, 1641, gives composition)	A	201	
275	DIAMOND BLACK 1899	.....	251,582	55,029
	Sodium salt of carboxy-phenol-azo-α-naphthalene-azo-α-naphthol-4-sulphonic acid.			
	$C_6H_3\begin{cases}[1]OH\\[2]CO_2Na\\[4]N=N[4]C_{10}H_4[1]N=N[2]C_{10}H_5\begin{cases}[1]OH\\[4]SO_3Na\end{cases}\end{cases}$			
	Diamond Black F	B		
	Diamond Black F conc	B		
	Diamond Black FB	B		
	Diamond Black GAF	B		
	Diamond Black GAF conc	B		
	Diamond Black AF	By		
	Diamond Black CY 24142	By		
	Diamond Black EA	By		
	Diamond Black ET	By		
	Diamond Black F	By		
	Diamond Black F conc	By		
	Diamond Black FB	By		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
275	DIAMOND BLACK—Continued.			
	Diamond Black GA	By		
	Diamond Black GA conc	By		
	Diamond Black GA 23747	By		
	Diamond Black GA 27412	By		
	Diamond Black GA 27414	By		
	Diamond Black GA 2 B 23629	By		
	Fast Mordant Black FH	M		
	Chrome Deep Black A extra conc	tM		
	Chrome Deep Black G extra conc	tM		
	Chrome Deep Black G extra conc. (Kal. 1910)	tM		
275a	CHROME BLACK (V. M.)		72,681	$12,616
	Chrome Black A 160 per cent	CG		
	Chrome Black extra conc	WD		
	Chrome Black D F extra	AW		
	Chrome Black FPP	AW		
	Chrome Black G	AW		
	New Chrome Black PK	CV		
	Chrome Black I 10 per cent	H		
	Chrome Black M conc	H		
	Chrome Black Z	H		
	Chrome Black 57006 20 per cent	H		
	Fast Chrome Black (Kal. 1914)	H		
275b	CHROME DEEP BLACK (V. M.)		2,204	432
	Chrome Deep Black A extra conc	G		
	Chrome Deep Black G extra conc	G		
275c	CHROME FAST BLACK (V. M.)		35,000	10,532
	Chrome Fast Black B 220 per cent (S.; S. H. IV, 1504)...1897	I		
	Chrome Fast Black FW (S. 1906)	I		
	Chrome Fast Black FW 200 per cent	I		
276	DIAMOND GREEN...1890 Sodium salt of carboxyphenol-azo-α-naphthalene-azo-dioxynaphthalene-4-sulphonic acid.		8,032	1,583
	$C_6H_3\begin{cases}[1]OH\\[2]CO_2Na\\[4]N=N[4]C_{10}H_4[1]N=N[2]C_{10}H_4\begin{cases}[1]OH\\[8]OH\\[4]SO_3Na\end{cases}\end{cases}$			
	Diamond Green B 23753	By		
	Diamond Green 3 G	By		
	Diamond Green SS	By		
	Diamond Green special	By		
277	ANTHRACENE ACID BLACK...1891 Sodium salt of carboxyphenol-azo-sulphonaphthalene-azo-β-naphthol-3.6-disulphonic acid.		17,793	2,647
	$C_6H_3\begin{cases}[1]OH\\[2]CO_2Na\\[4]N=N-C_{10}H_5\begin{cases}[1]N=N[1]C_{10}H_4\begin{cases}[2]OH\\[3]SO_3Na\\[6]SO_3Na\end{cases}\\[6\text{ or }7]SO_3Na\end{cases}\end{cases}$			
	Anthracene Acid Black 3 A. (Current marks, BRH, DSF, DSFB, DSN, LW, SA, SAS, SASN, SR, SRT, ST.)	C		
	Anthracene Acid Black 3 A 522	C		
	Anthracene Acid Black 20 T 1073	C		
278	BIEBRICH PATENT BLACK...1891	K	0	
	$HSO_3.C_{10}H_6.N=N.C_{10}H_5(SO_3H).N=N.C_{10}H_6.NH_2$			
	3. Tertiary disazo colors.			
	Type: $\begin{cases}R-K\\R'-K'\end{cases}$			
	(R and R′ represent the same or dissimilar diazo compounds joined with certain carbonyl and dicarbonyl derivatives.)			

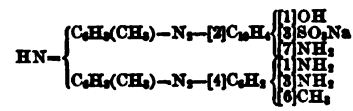
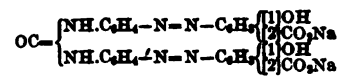
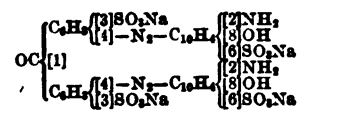
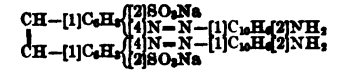
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
279	BENZO FAST SCARLET.....1899 Sodium salts of bi-benzene- (or homologue) disazo-dioxynaphthyl-urea-disulphonic acid.  (Ar=phenyl, tolyl, xylyl, α- or β-naphthyl, or $C_6H_5.N_2.C_6H_4'$.)	.....	36,674	39,010
	Benzo Fast Scarlet 4 BS.....	By		
	Benzo Fast Scarlet 5 BS.....	By		
	Benzo Fast Scarlet 8 BS.....	By		
	Benzo Fast Scarlet GS.....	By		
280	AZIDINE FAST SCARLET GGS.....1909 Diazotisation of o-toluidine and double combination with sulpho-m-toluylene-diamine-dicarbonyl-dioxy-dinaphthylamine-disulphonic acid.	CJ	0	
281	AZIDINE FAST SCARLET 4 BS.....1909 Diazotisation of equal molecules of o-toluidine and β-naphthylamine, and combination with sulpho-m-toluylene-diamine-dicarbonyl-dioxy-naphthylamine-disulphonic acid.	CJ	0	
282	AZIDINE FAST SCARLET 7 BS.....1909 Diazotisation of β-naphthylamine (2 mol.), and combination with (1 mol.) sulpho-m-toluylene-diamine-dicarbonyl-dioxy-naphthylamine-disulphonic acid.	CJ	0	
	4. Disazo colors derived from diamines.			
283	BISMARCK BROWN.....1863 Hydrochloride of benzene-disazo-m-phenylene-diamine. 	.....	27,576	5,382
	Bismarck Brown extra.....	A		
	Bismarck Brown EL.....	A		
	Golden Brown.....	A		
	Vesuvine O.....	B		
	Vesuvine OOO extra.....	B		
	Vesuvine PPL.....	B		
	Vesuvine S.....	B		
	Bismarck Brown L 19. (Current mar. s, LE, FF, GG, PS, YS.).....	C		
	Bismarck Brown M 20.....	C		
	Bismarck Brown YS.....	tM		
	Bismarck Brown G.....	I		
	Bismarck Brown 1568.....	CV		
	Bismarck Brown.....	H		
	Brown Y 125 per cent.....	H		
	Brown 37104.....	H		
283a	LEATHER BROWN (V. M.).....	.....	6,844	1,056
	Leather Brown R.....	I		
	Leather Brown LX.....	Lev		
283b	BROWN 359.....	Lev	600	
284	BISMARCK BROWN 2 R.....1878 Hydrochloride of toluene-disazo-m-toluylene-diamine. 	.....	170,662	31,941
	Vesuvine B conc.....	B		
	Vesuvine BL 11.....	B		

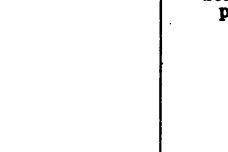
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
284	BISMARCK BROWN 2 R—Continued.			
	Vesuvine BLR 2	B		
	Vesuvine BPX	B		
	Bismarck Brown 2 R extra conc	tM		
	Bismarck Brown 2 RV extra conc	tM		
	Bismarck Brown R 8 per cent	I		
	Bismarck Brown R conc. 120 per cent	I		
	Bismarck Brown R conc	CV		
284a	XL BROWN RH	H	251	
285	TOLUYLENE BROWN G ....1890 Sodium salt of sulphotoluene-disazo-m-phenylene-diamine.	GrE	0	
286	TOLUYLENE YELLOW OO ....1894 Sodium salt of sulphotoluene-disazo-bi-nitro-m-phenylene-diamine. C_6H_2 {[1]N=N[4]C_6H_3 {[1]NH_2, [3]NH_2, [6]NO_2}; [2]CH_3; [5]SO_3Na; [3]N=N[4]C_6H_3 {[6]NO_2, [3]NH_2, [1]NH_2}}	GrE	5,485	
287	TOLUYLENE ORANGE R ....1891 Sodium salt of sulphotoluene-disazo-bi-β-naphthylamine. C_6H_2 {[1]N=N[1]$C_{10}H_6$[2]NH_2; [2]CH_3; [5]SO_3Na; [3]N=N[1]$C_{10}H_6$[2]NH_2}	M	500	
288	PALATINE CHROME BLACK 1901	.....	18,985	$1,607
	From tetrazotised 2.6-diamido-phenol-4-sulphonic acid and β-naphthol (2 mols.).			
	Palatine Chrome Black F powder	B		
	Palatine Chrome Black paste	B		
	$HSO_3.C_6H_2(OH)(N_2.C_{10}H_6.OH)_2$			
288a	ACID ALIZARIN BLACK SR	CV	200	
289	PALATINE CHROME BLACK S ....1904 From tetrazotised 2.6-diamido-1-phenol-4-sulphonic acid combined with β-naphthol (1 mol.) and 2-naphthol-6-sulphonic acid.	B	0	
290	VIOLET BLACK ....1887 Sodium salt of benzene-disazo-α-naphthylamine-α-naphthol-sulphonic acid.	B	0	
291	AZO ALIZARIN BORDEAUX W ....1899 Sodium salt of benzene-disazo-salicylic-acid-α-naphthol-sulphonic acid.	DH	0	
292	AZO ALIZARIN BLACK I ....1888 Sodium salt of benzene-disazo-salicylic-acid-dioxy-naphthalene-di- (or mono-) sulphonic acid.	DH	0	
293	MILLING RED 1893	.....	699	139
	From tetrazotised thio-aniline combined with β-naphthol-6-sulphonic acid (2 mols.).			
	Milling Red 57 D 1984. (Current marks, FGG, FR, G, R.)	C		
	Milling Red 57 E 1985	C		
294	FAST MORDANT YELLOW ....1892 Sodium salt of thio-di-benzene-disazo-di-salicylic acid. S {$C_6H_4 \cdot N_2 \cdot C_6H_3$ {[1]OH, [2]CO_2Na}; $C_6H_4 \cdot N_2 \cdot C_6H_3$ {[1]OH, [2]CO_2Na}}	.....	3,678	5,796
	Anthracene Yellow C	By		
	Fast Mordant Yellow G powder (S.)	B		
	Acid Alizarin Yellow GGW	M		
	Anthracene Yellow C 4464	BK		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
295	DIPHENYL FAST BLACK superfine.....1896 Sodium salt of ditolylamine-disazo-m-toluylene-diamine-amido-naphthol-sulphonic acid. 	G	882	
296	COTTON YELLOW.....1888 Sodium salt of diphenyl-urea-disazo-bi-salicylic acid. 	.....	21,437	$6,161
	Cotton Yellow GI.....	B		
	Cotton Yellow GX.....	B		
	Benzo Fast Yellow 5 GL.....	By		
296a	BENZO FAST YELLOW (V. M.).....	.....	6,535	2,753
	Benzo Fast Yellow 4 GL extra.....	By		
	Benzo Fast Yellow RL.....	By		
	Benzo Fast Yellow RL 28168.....	By		
296b	COTTON YELLOW CH conc. 250 per cent (S.).....	I	3,500	
297	BENZO FAST PINK 2 BL.....1900 Sodium salt of diphenyl-urea-disulphonic-acid-disazo-bi-amido-naphthol-sulphonic acid. 	By	3,252	
298	MILLING RED R..... Tetrazotised diamido-diphenyl-methane combined with β-naphthol-3.6-disulphonic acid (2 mols.).	WD	0	
299	CINNABAR SCARLET BF..... Tetrazotised diamido-dixylyl-methane combined with β-naphthol-3.6-disulphonic acid (2 mols.).	BK	0	
300	CINNABAR SCARLET G.....1887 Tetrazotised diamido-dixylyl-phenyl-methane combined with β-naphthol-3.6-disulphonic acid (2 mols.).	BK	0	
301	HESSIAN PURPLE N.....1886 Sodium salt of disulpho-stilbene-disazo-bi-β-naphthylamine. 	By	465	
302	BRILLIANT HESSIAN PURPLE.....1886 Sodium salt of disulpho-stilbene-disazo-bi-β-naphthylamine-6-sulphonic acid.	L	0	
303	RENOL BRILLIANT YELLOW.....1886 Sodium salt of disulpho-stilbene-disazo-bi-phenol. 	.....	12,756	3,290
	Paper Yellow 3 GX.....	B		
	Renol Brilliant Yellow.....	tM		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
303a	PAPER YELLOW (V. M.)		264,442	$45,220
	Paper Yellow G	B		
	Paper Yellow GGX	B		
	Paper Yellow RRX	B		
	Paper Yellow 3 RXX	B		
	Paper Yellow 22812	B		
	Paper Yellow	WD		
	Paper Yellow 33598 cryst	S		
	Paper Yellow 03995	S		
303b	BRILLIANT YELLOW	Q	231	98
304	CHRYSOPHENINE....1886 Sodium salt of disulpho-stilbene-disazo-phenetol. 		135,293	37,444
	Chrysophenine G extra strong	A		
	Pyramine Yellow GXS	B		
	Pyramine Yellow GXSC 17913	B		
	Pyramine Yellow GXSP 17913	B		
	Chrysophenine G	By		
	Chrysophenine G conc. 24278	By		
	Chrysophenine 81572. (Current mark, G.)	K		
	Chrysophenine 190	K		
	Azidine Yellow CP conc	CJ		
	Triazol Yellow NBPOO	GrE		
	Chrysophenine GOO	L		
	Chrysophenine G extra conc	tM		
	Chrysophenine G	AW		
	Chrysophenine III	AW		
	Chrysophenine double	I		
	Chrysophenine conc	S		
	Sultan Yellow H	H		
	Sultan Yellow H 20 per cent	H		
304a	CHRYSOPHENINE (V. M.)		13,113	3,033
	Chrysophenine R (S.; Kal. 1905)	By		
	Chrysophenine W extra conc	By		
304b	DIRECT YELLOW (V. M.)		5,836	1,396
	Direct Yellow G extra	L		
	Direct Yellow G extra	L		
	Direct Yellow CR 5 per cent (S.)	I		
	Direct Yellow 19305	I		
	Fast Direct Yellow 22090	S		
304c	CHRYSOBARINE (V. M.)		2,495	461
	Chrysobarine powder new extra conc	tM		
	Chrysobarine R conc. powder	tM		
304d	SULTAN ORANGE DS 25 per cent	H	1,062	
305	HESSIAN YELLOW....1886 Sodium salt of disulpho-stilbene-disazo-bi-salicylic acid.	L	0	
306	PYRAMINE ORANGE 3 G....1898 Sodium salt of diphenyl-disazo-nitro-m-phenylene-diamine-m-phenylene-diamine-disulphonic acid. 	G	7,863	
307	CONGO....1884 Sodium salt of diphenyl-disazo-binaphthionic acid. 		12,040	1,807

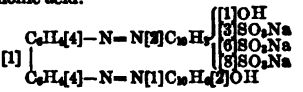
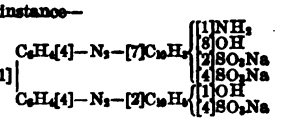
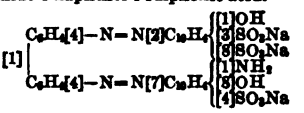
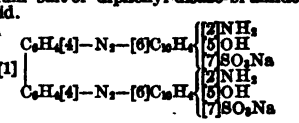
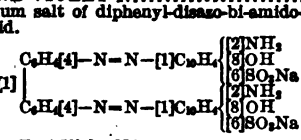
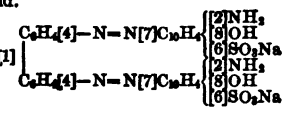
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
307	CONGO—Continued.			
	Congo	A		
	Congo Red	GrE		
	Cotton Red 4 B 025	GrE		
	Cotton Red extra conc	tM		
307a	COTTON RED (V. M.)		4,455	$301
	Cotton Red A	C		
	Cotton Red 8 BN	CG		
	Cotton Red 65 A	Lev		
	Cotton Red 201 A	Lev		
307b	DIRECT RED (V. M.)		4,134	1,208
	Direct Red B	DH		
	Direct Red	I		
	Direct Red 215	I		
	Direct Red 1725	I		
	Direct Red	S		
	Direct Red 3 B	S		
308	DIAZO BLACK. 1892 Sodium salt of diphenyl-disazo-bi-5-sulpho-α-naphthylamine.		62,854	8,257
	$C_6H_4[4]-N=N-[2]C_{10}H_5\{[1]NH_2,[5]SO_3Na$ $[1]$ $C_6H_4[4]-N=N-[2]C_{10}H_5\{[1]NH_2,[5]SO_3Na$			
	Diazo Black OB (S.; Kal. 1911)	By		
	Diazo Black OT	By		
	Diazo Black OT conc. 25928	By		
	Diazo Black R	By		
	Diazo Black 10020	BK		
309	GLYCINE RED. 1891 Sodium salt of diphenyl-disazo-α-naphthyl-glycine-naphthionic acid.	KI	0	
310	GLYCINE CORINTH. 1891 Sodium salt of diphenyl-disazo-bi-α-naphthyl-glycine.	KI	0	
311	ORANGE TA. 1894 Sodium salt of diphenyl-disazo-cresol-naphthionic acid.	A	602	
	$C_6H_4[4]-N=N-C_6H_3\{OH,CH_3$ $[1]$ $C_6H_4[4]-N=N-[2]C_{10}H_5\{[1]NH_2,[4]SO_3Na$			
312	CONGO CORINTH. 1886 Sodium salt of diphenyl-disazo-naphthionic-α-naphthol-4-sulphonic acid.		30,743	6,030
	$C_6H_4[4]-N=N-[2]C_{10}H_5\{[1]OH,[4]SO_3Na$ $[1]$ $C_6H_4[4]-N=N-[2]C_{10}H_5\{[4]SO_3Na,[1]NH_2$			
	Congo Corinth G	A		
	Congo Corinth G 99946	A		
	Cotton Corinth G	B		
	Congo Corinth G	By		
	Cotton Corinth G	GrE		
	Congo Corinth G	S		
312a	AZO ORSEILLINE conc. (Hurst, Dict. of Coal Tar Colors, 39, formula, etc.; S. J., 2d ed., 159) (Benzidine+2 mol. α-naphthol-sulphonic acid N W)	FA	4,409	
313	CONGO RUBINE. 1891 Sodium salt of diphenyl-disazo-naphthionic-β-naphthol-8-sulphonic acid.		46,113	6,339
	$C_6H_4[4]-N_2-[2]C_{10}H_5\{[1]NH_2,[4]SO_3Na$ $[1]$ $C_6H_4[4]-N_2-[1]C_{10}H_5\{[2]OH,[8]SO_3Na$			
	Congo Rubine	A		
	Cotton Rubine	B		
	Congo Rubine	By		
	Congo Rubine 8714	CG		
	Azidine Bordeaux G conc	CJ		
	Congo Rubine G	S		

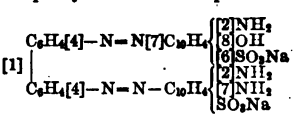
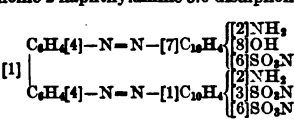
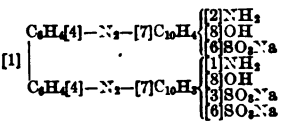
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
313a	COTTON RUBY 32 A	Lev	100	
314	PYRAMINE ORANGE RR ..... 1899 Sodium salt of diphenyl-disazo-nitro-m-phenylene-diamine-β-naphthylamine-disulphonic acid. $C_6H_4[4]-N_2-[1]C_{10}H_4\{[2]NH_2, [3]SO_3Na, [6]SO_3Na$ [1] $C_6H_4[4]-N_2-[4]C_6H_2\{[1]NH_2, [3]NH_2, [6]NO_2$	B	2,789	
315	CONGO ORANGE ..... 1889 Sodium salt of diphenyl-disazo-phenetol-β-naphthylamine-disulphonic acid. $C_6H_4[4]-N_2-[4]C_6H_4[1]OC_2H_5$ [1] $C_6H_4[4]-N_2-[1]C_{10}H_4\{[2]NH_2, [3]SO_3Na, [6]SO_3Na$	.....	1,622	$559
	Congo Orange G	A		
	Congo Orange G	By		
316	BRILLIANT CONGO G ..... 1886 Sodium salt of diphenyl-disazo-β-naphthylamine-6-sulphonic-β-naphthylamine-3.6-disulphonic acid.	A	0	
317	PYRAMIDOL BROWN BG ..... 1898 Sodium salt of diphenyl-disazo-bi-resorcin.	FA	0	
318	BENZIDINE PUCE Sodium salt of diphenyl-disazo-bi-β-naphthol.	M	0	
319	DIAMINE SCARLET ..... 1889 Sodium salt of diphenyl-disazo-phenetol-β-naphthol-6.8-disulphonic acid. $C_6H_4[4]-N=N-[1]C_6H_4[4]OC_2H_5$ [1] $C_6H_4[4]-N=N-[1]C_{10}H_4\{[2]OH, [6]SO_3Na, [8]SO_3Na$	.....	28,887	9,027
	Diamine Bordeaux 60 X 2081. (Current marks, B, BR, J, S, VRO.)	C		
	Diamine Bordeaux 60 Z 2083	C		
	Diamine Scarlet 58 E 2011. (Current marks, B, 3 B, HS, RG.)	C		
	Diamine Scarlet 58 F 2012	C		
319a	DIAMINE BRILLIANT BORDEAUX R	C	12,283	
320	BORDEAUX (V. M.) ..... 1883 Sodium salt of diphenyl-disazo-bi-β-naphthol-8-sulphonic acid. $C_6H_4[4]-N=N-[1]C_{10}H_5\{[2]OH, [8]SO_3Na$ [1] $C_6H_4[4]-N=N-[1]C_{10}H_5\{[8]SO_3Na, [2]OH$	.....	1,115	242
	Bordeaux COV	A		
	Bordeaux BLA extra	tM		
320a	BORDEAUX extra	G	220	
321	HELIOTROPE 2 B ..... 1892 Sodium salt of diphenyl-disazo-α-naphthol-3.8-disulphonic-β-naphthol-8-sulphonic acid. $C_6H_4[4]-N_2-[1]C_{10}H_5\{[2]OH, [8]SO_3Na$ [1] $C_6H_4[4]-N_2-[2]C_{10}H_4\{[1]OH, [3]SO_3Na, [8]SO_3Na$	.....	1,473	214
	Heliotrope 2 B	A		
	Heliotrope BB	By		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
322	TRISULPHON VIOLET B.....1896 Sodium salt of diphenyl-disazo-β-naphthol-α-naphthol-trisulphonic acid. 	S	1,124	
323	DIANIL BLUE R.....1899 Sodium salt of diphenyl-disazo-bi-1.8-dioxy-naphthalene-3.6-disulphonic acid.	M	0	
324	CHICAGO BLUE 4 R.....1894 Mixed disazo compounds from benzidine, amido-naphthol-sulphonic acid (1:8:4) or disulphonic acid (1:8:2:4), and α-naphthol-sulphonic acid. For instance— 	A	1,199	
325	COLUMBIA BLUE R.....1894 Sodium salt of diphenyl-disazo-α-naphthol-3.8-disulphonic-1-amido-8-naphthol-4-sulphonic acid. 	A	3,071	
326	OXY DIAMINE VIOLET.....1903 Sodium salt of diphenyl-disazo-bi-amido-naphthol-sulphonic acid. 	.....	11,514	$1,933
	Oxamine Violet.....	B		
	Benzo Violet O.....	By		
	Oxy Diamine Violet 36 Q 1470 (S.; S. H. IV, 1735-36). (Current marks, B, BF, G, R.).....	C		
	Oxy Diamine Violet 5 W 508.....	C		
	Oxy Diamine Violet 5 Z 511.....	C		
	Naphthamine Violet BE.....	K		
326a	BENZO VIOLET R (S.; S. H. IV, 1727).....1895	By	12,467	
327	DIAMINE VIOLET N.....1889 Sodium salt of diphenyl-disazo-bi-amido-naphthol-sulphonic acid. 	.....	13,107	2,849
	Benzo Fast Violet NC.....	By		
	Diamine Violet N.....	C		
327a	BENZO FAST VIOLET R (S.; S. H. IV, 1730).....1899	By	4,680	
327b	NAPHTHAMINE VIOLET R.....	K	476	
328	DIANOL BLACK RW.....1899 Sodium salt of diphenyl-disazo-bi-amido-naphthol-sulphonic acid. 	Lev	8,253	

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
329	DIAMINE BROWN V.....1889 Sodium salt of diphenyl-disazo-m-phenylene-diamine-2-amido-8-naphthol-6-sulphonic acid.	C	0	
330	ZAMBESI BROWN.....1894 Sodium salt of diphenyl-disazo-2-amido-8-naphthol-6-sulphonic-2.7-naphthylene-diamine-sulphonic acid. 	.....	496	$111
	Zambesi Brown G.....	A		
	Zambesi Brown 2 G.....	A		
330a	ZAMBESI BROWN 4 R (S.; Kal. 1909).....	A	3,530	
331	ALKALI DARK BROWN G, V.....1897 Mixed disazo compounds from benzidine, tolidine, or dianisidine, and 1 mol. of the bisulphite derivative of nitroso-β-naphthol + 1 mol. of an amido-naphthol-sulphonic acid.	WD	0	
332	BENZO FAST RED.....1902 Sodium salt of diphenyl-disazo-2-amido-8-naphthol-6-sulphonic-2-naphthylamine-3.6-disulphonic acid. 	.....	5,985	1,775
	Benzo Fast Red 8 BL.....	By		
	Benzo Fast Red D.....	By		
	Benzo Fast Red GL (S.; S. H. IV, 1583).....1902	By		
	Benzo Fast Red L (S.; S. H. IV, 1581).....1900	By		
333	OXAMINE BLACK.....1899 Sodium salt of diphenyl-disazo-amido-naphthol-sulphonic-acid-amido-naphthol-disulphonic acid. 	.....	417,423	57,464
	Oxamine Black BHN extra.....	B		
	Oxamine Black BHX (S.; Kal. 1908).....	B		
	Diazo Black BHN.....	By		
	Diazo Black BHN extra.....	By		
	Diazo Black BHN extra conc.....	By		
	Diazo Black BHN extra conc 25283.....	By		
	Renolamine Black BHN extra conc.....	tM		
	Renolamine Black BHN extra conc.....	G		
	Diazo Black BHAD conc.....	S		
333a	DIRECT BLACK FBS.....	CG	8,818	
333b	DIAMINE BLACK (V. M.).....	.....	171,211	19,634
	Diamine Black A 73 (S.; S. H. IV, 1131, 1134, 1212, 1315, 1911). (Current marks, B, BH, BO, DB, DN, HW, RO, BX, RMW.).....	C		
	Diamine Black AA 397.....	C		
	Diamine Black B 74.....	C		
	Diamine Black BB 398.....	C		
	Diamine Black 13 F 885.....	C		
	Diamine Black 6 D 515.....	C		
	Diamine Black 6 H 712.....	C		
	Diamine Black 36 K 1464.....	C		
	Diamine Black 19 M 1041.....	C		

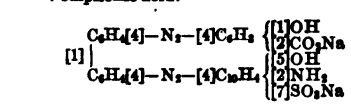
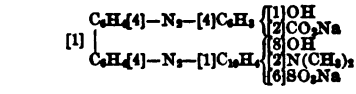
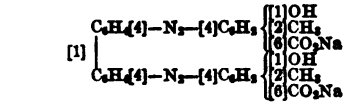
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
333c	MELANTHERINE (V. M.)		4,483	$1,104
	Melantherine IH (S.; S. H. IV, 1698) 1902	I		
	Melantherine 11518	I		
	Melantherine 12760	I		
333d	DEVELOP BLACK		17,496	4,333
	Develop Black	WD		
	Develop Black NZ	Q		
334	DIPHENYL BLUE BLACK double 1895 Sodium salt of diphenyl-disazo-ethyl-amido-naphthol-sulphonic-amido-naphthol-disulphonic acid. $C_6H_4[4]-N_2-[7]C_{10}H_4$ {[2] NHC_2H_5, [3] OH, [6] SO_2Na} [1] $C_6H_4[4]-N_2-[7]C_{10}H_5$ {[1] NH_2, [8] OH, [3] SO_2Na, [6] SO_2Na}	G	26,240	
335	NAPHTHAMINE BLACK 1893 Sodium salt of diphenyl-disazo-1.8-amido-naphthol-4.6-sulphonic-2.8-amido-naphthol-6-sulphonic acid. $C_6H_4[4]-N=N-[7]C_{10}H_5$ {[1] NH_2, [8] OH, [4] SO_2Na, [6] SO_2Na} [1] $C_6H_4[4]-N=N-[7]C_{10}H_4$ {[2] NH_2, [8] OH, [6] SO_2Na}	.....	47,949	7,132
	Naphthamine Black 163 (S.). (Current marks, BVE, CE, CET, H, RE, REN, VE.)	K		
	Naphthamine Black 357	K		
	Naphthamine Black 3931	K		
	Naphthamine Black 3932	K		
	Naphthamine Black 4664	K		
	Naphthamine Black 4670	K		
	Naphthamine Black 4671	K		
	Naphthamine Black 4673	K		
	Naphthamine Black 4676	K		
	Naphthamine Black 4678	K		
335a	NAPHTHAMINE DEEP BLACK HW (S.)	K	1,047	
336	BENZO CYANINE R 1893 Sodium salt of diphenyl-disazo-1.8-amido-naphthol-3.6-disulphonic-2.8-amido-naphthol-6-sulphonic acid. $C_6H_4[4]-N=N-[7]C_{10}H_5$ {[1] NH_2, [8] OH, [3] SO_2Na, [6] SO_2Na} [1] $C_6H_4[4]-N=N-[7]C_{10}H_4$ {[2] NH_2, [8] OH, [6] SO_2Na}	By	201	
337	BENZO BLUE 2 B 1890 Sodium salt of diphenyl-disazo-bi-amido-naphthol-disulphonic acid. $C_6H_4[4]-N=N[7]C_{10}H_5$ {[1] NH_2, [8] OH, [3] SO_2Na, [6] SO_2Na} [1] $C_6H_4[4]-N=N[7]C_{10}H_5$ {[1] NH_2, [8] OH, [3] SO_2Na, [6] SO_2Na}	By	19,035	
338	NAPHTHAMINE BLUE 1897 Sodium salt of diphenyl (or ditolyl)-disazo-bi-1.8-amido-naphthol-4.6-disulphonic acid. $C_6H_4[4]-N=N-[7]C_{10}H_5$ {[1] NH_2, [8] OH, [4] SO_2Na, [6] SO_2Na} [1] $C_6H_4[H_4]-N=N-[7]C_{10}H_5$ {[1] NH_2, [8] OH, [4] SO_2Na, [6] SO_2Na}	.....	11,707	2,455

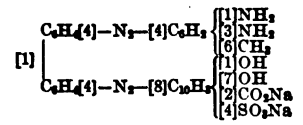
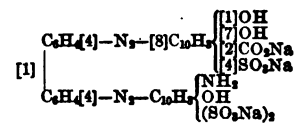
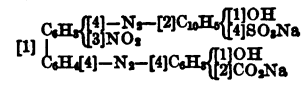
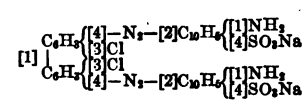
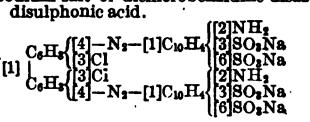
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
338	NAPHTHAMINE BLUE—Continued.			
	Naphthamine Blue 1575 (S.; Kal. 1907; 1910; 1911; 1912; 1914). (Current marks, B, 2 B, 3 B, 5 B, 7 B, 12 B, BE, BXR, GE, R, 2 R, 3 R, 2 RE, S 3 B.)	K		
	Naphthamine Blue 3682	K		
	Naphthamine Blue 3689	K		
	Naphthamine Blue 3693	K		
	Naphthamine Blue 4582	K		
	Naphthamine Blue 4583	K		
	Naphthamine Blue 4584	K		
339	BRILLIANT ORANGE G....1894	A	6,321	
	Sodium salt of diphenyl-disazo-salicylic-amidophenol-sulphonic acid.			
	$C_6H_4[4]-N=N-[4]C_6H_3\{[1]OH,[2]CO_2Na$ / [1] / $C_6H_4[4]-N=N-C_6H_2(NH_2)(OH)(SO_3Na)$			
340	BENZO ORANGE R....1887	By	575	
	Sodium salt of diphenyl-disazo-salicylic-naphthionic acid.			
	$C_6H_4[4]-N=N-[4]C_6H_3\{[1]OH,[2]CO_2Na$ / [1] / $C_6H_4[4]-N=N-[2]C_{10}H_5\{[1]NH_2,[4]SO_3Na$			
340a	BENZO FAST ORANGE WS (S.; Kal. 1912; S. H. IV, 1540)...	By	496	
341	CRUMPSALL DIRECT FAST RED R....1886	Lev	0	
	Sodium salt of diphenyl-disazo-salicylic-β-naphthol-3.6-disulphonic acid.			
342	CHRYSAMINE....1884	.....	608	$115
	Sodium salt of diphenyl-disazo-bi-salicylic acid.			
	$C_6H_4[4]-N=N-[4]C_6H_3\{[1]OH,[2]CO_2H$ / [1] / $C_6H_4[4]-N=N-[4]C_6H_3\{[2]CO_2H,[1]OH$			
	Chrysamine G	By		
	Chrysamine K	S		
343	DIAMINE FAST RED....1889	.....	47,794	17,131
	Sodium salt of diphenyl-disazo-salicylic-amido-naphthol-sulphonic acid.			
	$C_6H_4[4]-N=N-[1]C_{10}H_4\{[2]NH_2,[8]OH,[6]SO_3Na$ / [1] / $C_6H_4[4]-N=N-[4]C_6H_3\{[1]OH,[2]CO_2Na$			
	Columbia Fast Red F	A		
	Oxamine Fast Red F	B		
	Benzo Fast Red FC	By		
	Diamine Fast Red F	C		
	Diamine Fast Red 57 A 1981 (S.; Kal. 1912). (Current marks, 8 BL, F.)	C		
	Diamine Fast Red 56 Z 1980	C		
	Naphthamine Red 3005 H	K		
	Hessian Fast Red F	L		
	Diphenyl Fast Red	G		
	Direct Fast Red F	I		
343a	DIRECT FAST RED (V. M.)....1914	.....	2,755	1,149
	Direct Fast Red 17727	I		
	Direct Fast Red 25420	I		
	Direct Fast Red	Q		
344	DIAMINE BROWN....1889	.....	63,716	12,457
	Sodium salt of diphenyl-disazo-salicylic-amido-naphthol-sulphonic acid.			
	$C_6H_4[4]-N_2-[4]C_6H_3\{[1]OH,[2]CO_2H$ / [1] / $C_6H_4[4]-N_2-[2]C_{10}H_4\{[1]OH,[7]NH_2,[3]SO_3Na$			

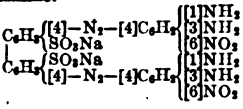
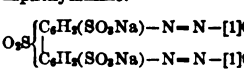
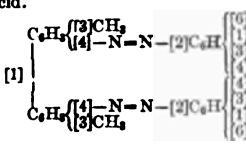
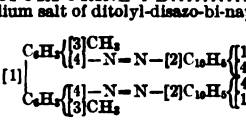
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
344	DIAMINE BROWN—Continued.			
	Oxamine Brown R	B		
	Oxamine Brown RG	B		
	Diamine Brown A A 440 (S.; S. H. IV, 1133, 1149, 1152, 1778–84). (Current marks, ATC, B, GG, 3 G, 5 G, M, MR, OO, QQ, R, R 4 G, S, V, 31, 32, 33, 34, 35, 36, 37, 39, 40, 41, 43.)	C		
	Diamine Brown BB 441	C		
	Diamine Brown II J 838	C		
	Diamine Brown 36 J 1463	C		
	Diamine Brown W 436	C		
	Diamine Brown 31 W 1351	C		
	Direct Dark Brown M	L		
	Renol Brown MB	tM		
	Renol Brown MB conc	tM		
	Renol Brown RA extra conc. (Kal. 1907; 1909; 1911)	tM		
	Renol Brown RA extra	tM		
	Direct Brown M conc	I		
344a	DIRECT BROWN (V. M.)		1,000	$343
	Direct Brown RW	Q		
	Direct Brown 102	Q		
345	OXAMINE MAROON.....1893 Sodium salt of diphenyl-disazo-salicylic-1.5-amido-naphthol-7-sulphonic acid.	B	0	
346	OXAMINE RED.....1893 Sodium salt of diphenyl-disazo-salicylic-2.5-amido-naphthol-7-sulphonic acid.		11,636	2,563
				
	Oxamine Red	B		
	Oxamine Red BNX (S. 1909)	B		
	Oxamine Red 3 B (S.; Kal. 1908)	B		
347	DIPHENYL BROWN RN.....1895 Sodium salt of diphenyl-disazo-salicylicm-ethyl-2-amido-8-naphthol-6-sulphonic acid.	G	0	
348	DIPHENYL BROWN BN.....1895 Sodium salt of diphenyl-disazo-salicylic-dimethyl-2-amido-8-naphthol-6-sulphonic acid.		13,671	4,015
				
	Diphenyl Brown BBNC	G		
	Diphenyl Brown BGN superfine	G		
	Diphenyl Brown BVCN (Kal. 1911)	G		
	Diphenyl Brown GS (Kal. 1907)	G		
349	DIAMINE BROWN B.....1894 Sodium salt of diphenyl-disazo-salicylic-phenyl-2-amido-8-naphthol-6-sulphonic acid.	C	0	
350	ALKALI YELLOW R.....1889 Sodium salt of diphenyl-disazo-salicylic-dehydro-thio-toluidine-sulphonic acid.	WD	0	
351	CRESOTINE YELLOW.....1888 Sodium salt of diphenyl-disazo-bi-o-cresol-carboxylic acid.		1,748	362
				
	Cresotine Yellow G	M		
	Cresotine Yellow G	GrE		
	Cresotine Yellow GOO	GrE		

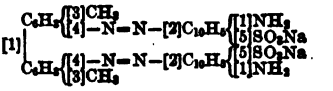
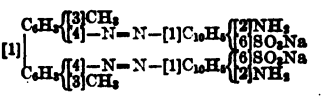
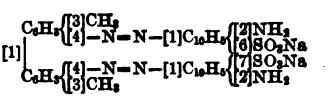
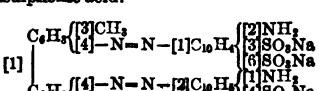
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
352	DIRECT VIOLET R.....1894 Sodium salt of diphenyl-disazo-m-toluylene-diamine-dioxynaphthoic-sulphonic acid. 	Q	661	$171
353	DIRECT INDIGO BLUE BN.....1893 Sodium salt of diphenyl-disazo-dioxynaphthoic-sulphonic-amido-naphthol-disulphonic acid. 	I	6,000	
354	DIRECT GRAY R.....1891 Sodium salt of diphenyl-disazo-bi-dioxynaphthoic-sulphonic acid.	I	0	
355	ANTHRACENE RED.....1892 Sodium salt of nitrodiphenyl-disazo-salicylic-α-naphthol-sulphonic acid. 	.....	3,873	1,096
	Anthracene Red WB powder	B		
	Anthracene Red	By		
	Anthracene Red	I		
	Anthracene Red 10430	I		
356	DIANOL RED 2 B.....1896 Sodium salt of dichlorodiphenyl-disazo-bi-naphthionic acid. 	Lev	0	
356a	DIANOL BROWN	.....	200	43
	Dianol Brown CDFB	Lev		
	Dianol Brown LF	Lev		
356b	DIANOL ORANGE 217 A	Lev	3,922	
356c	DIANOL ORANGE BROWN 223	Lev	300	
357	DIANOL RED B.....1896 Sodium salt of dichlorodiphenyl-disazo-bi-β-naphthylamine-sulphonic acid.	Lev	0	
358	DIPHENYL RED.....1896 Sodium salt of dichlorobenzidine-disazo-bi-β-naphthylamine-disulphonic acid. 	.....	12,806	5,001
	Toluylene Red OO	GrE		
	Diphenyl Red 8 B	G		
	Diphenyl Red 340	G		
	Diphenyl Red (bluish) 184	G		
	Chlorantine Red	I		
358a	FAST TOLUYLENE RED	GrE	1,497	

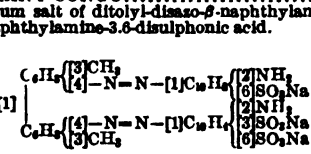
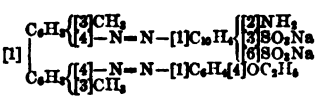
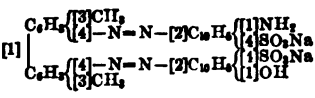
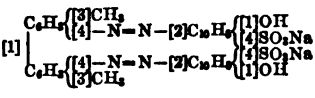
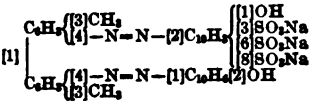
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
359	TRYPAN RED.....1906 Sodium salt of disulpho-diphenyl-disazo-bi-nitro-m-phenylene-diamine.	M	0	
360	PYRAMINE ORANGE R.....1893 Sodium salt of disulpho-diphenyl-disazo-bi-nitro-m-phenylene-diamine. 	B	21,229	
361	SULPHONAZURINE.....1883 Sodium salt of disulpho-diphenyl-sulphone-disazo-bi-phenyl-β-naphthylamine. 	By	0	
361a	BRILLIANT SULPHONAZURINE R (S.; S. H. IV, 1365).1892	By	300	
362	OXY DIAMINE ORANGE.....1886 Sodium salt of ditolyl-disazo-bi-m-toluylene-diamine-sulphonic acid. 	.....	19,905	$4,223
	Pyramine Orange RT	B		
	Oxy diamine Orange 2 A 605. (Current marks, G, R, RN.)	C		
	Oxy diamine Orange 37 B 1481	C		
	Oxy diamine Orange BB 606	C		
	Oxy diamine Orange 69 P 2303	C		
	Direct Orange R	I		
	Direct Orange R 10665	I		
362a	PYRAMINE ORANGE 2 GX (S. 1895; Kal. 1911)	B	6,003	
363	BENZOPURPURINE 4 B.....1884 Sodium salt of ditolyl-disazo-bi-naphthionic acid. 	.....	341,734	45,233
	Benzopurpurine 4 B extra	A		
	Benzopurpurine 4 B extra extra 60 : 100	A		
	Benzopurpurine 4 BM	A		
	Cotton Red 4 B	B		
	Cotton Fast Red 4 BSP	B		
	Cotton Red (S.)	B		
	Benzopurpurine 4 B	By		
	Benzopurpurine 4 B extra	By		
	Benzopurpurine 4 B conc. 24895	By		
	Benzopurpurine 4 B conc	BK		
	Benzopurpurine 4 BN	BK		
	Benzopurpurine 4 BP 070	GrE		
	Benzopurpurine 4 B extra conc	tM		
	Benzopurpurine 4 B conc	tM		
	Benzopurpurine 4 B conc. 90 per cent	tM		
	Benzopurpurine 4 B	AW		
	Benzopurpurine 4 B double	AW		
	Benzopurpurine 4 B extra conc	G		
	Sultan 5 B	H		
	Benzopurpurine 4 B conc	Q		
	Benzopurpurine 4 BN	Q		
	Benzopurpurine 4 BX	Q		

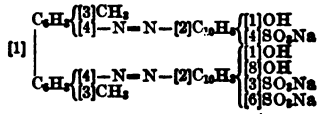
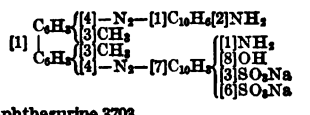
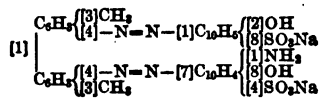
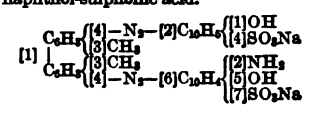
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
363a	DIAMINE RED (V. M.).....	.....	9,966	$1,609
	Diamine Red 56 N 1908 (S.; S. H. IV, 1206). (Current marks, B, 3 B, 4 B, 5 B, 6 B, 10 B, D, J, NO, NNO.).....	C		
	Diamine Red 56 S 1978.....	C		
364	DIAZO BRILLIANT BLACK.....1885 Sodium salt of ditolyl-disazo-bi-α-naphthylamine-sulphonic acid.	.....	9,171	2,469
				
	Benzopurpurine 6 B.....	By		
	Diazo Brilliant Black B.....	By		
365	BENZOPURPURINE B.....1885 Sodium salt of ditolyl-disazo-bi-β-naphthylamine-6-sulphonic acid.	.....	3,913	961
				
	Benzopurpurine B.....	A		
	Benzopurpurine B extra conc.....	tM		
	Cotton Red B conc.....	S		
	Benzopurpurine.....	H		
365a	BENZOPURPURINE (V. M.).....	.....	12,177	451
	Benzopurpurine AM.....	By		
	Benzopurpurine AM 27019.....	By		
	Benzopurpurine extra.....	AW		
	Benzopurpurine.....	I		
366	DELTAPURPURINE 5 B.....1886 Sodium salt of ditolyl-disazo-bi-β-naphthylamine-6-sulphonic acid.	.....	20,234	3,646
				
	Deltapurpurine 5 B.....	A		
	Cotton Purple 5 BN (S.).....	B		
	Deltapurpurine 5 B.....	By		
	Deltapurpurine 5 B.....	AW		
	Deltapurpurine 5 B extra.....	AW		
	Deltapurpurine.....	I		
	Deltapurpurine 5 B.....	S		
366a	DELTAPURPURINE 3 B.....	AW	774	
367	DIAMINE RED 3 B.....1886 Sodium salt of ditolyl-disazo-bi-β-naphthylamine-7-sulphonic acid.	A	0	
368	BRILLIANT PURPURINE 4 B.....1885 Sodium salt of ditolyl-disazo-naphthionic-β-naphthylamine-6-sulphonic acid.	A	0	
368a	BRILLIANT PURPURINE 10 B (S. 1900).....	A	6,634	
369	BRILLIANT PURPURINE R.....1887 Sodium salt of ditolyl-disazo-naphthionic-β-naphthylamine-disulphonic acid.	A	3,051	
				

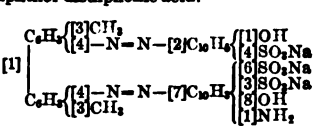
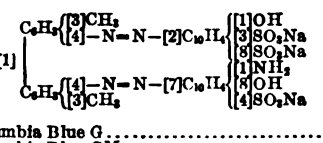
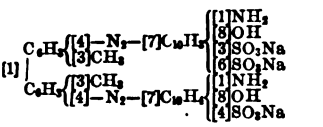
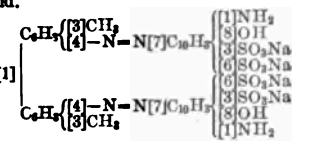
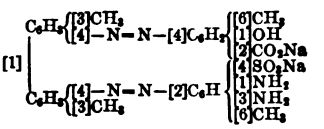
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
370	BRILLIANT CONGO.....1886 Sodium salt of ditolyl-disazo-β-naphthylamine-6-sulphonic-β-naphthylamine-3.6-disulphonic acid.  Brilliant Congo R..... Brilliant Congo R..... Brilliant Congo R.....	..... A By S	19,133	$3,133
371	ROSAZURINE G.....1886 Sodium salt of ditolyl-disazo-ethyl-β-naphthylamine-7-sulphonic-β-naphthylamine-7-sulphonic acid.	By	0	
372	ROSAZURINE B.....1886 Sodium salt of ditolyl-disazo-bi-ethyl-β-naphthylamine-7-sulphonic acid.	By	0	
373	CONGO ORANGE.....1889 Sodium salt of ditolyl-disazo-phenetol-β-naphthylamine-disulphonic acid.  Congo Orange R..... Congo Orange R..... Congo Orange RG (S.).....1907	..... A By By	7,027	3,578
374	CONGO RED 4 R.....1886 Sodium salt of ditolyl-disazo-resorcin-naphthionic acid.	By	0	
375	CONGO CORINTH.....1885 Sodium salt of ditolyl-disazo-naphthionic-α-naphthol-4-sulphonic acid.  Congo Corinth B..... Congo Corinth B 99947..... Congo Corinth B.....	..... A A By	2,196	315
376	PYRAMIDOL BROWN T.....1898 Sodium salt of ditolyl-disazo-bi-resorcin.	FA	0	
377	AZO BLUE.....1885 Sodium salt of ditolyl-disazo-bi-α-naphthol-4-sulphonic acid. 	By	498	
378	TRISULPHON BLUE.....1896 Sodium salt of ditolyl-disazo-β-naphthol-α-naphthol-3.6.8-trisulphonic acid.  Trisulphon Blue R..... Trisulphon Blue R conc..... Trisulphon Blue R conc. 7:10.....	..... S S S	911	259

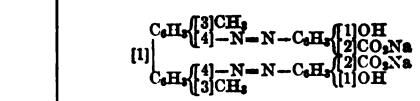
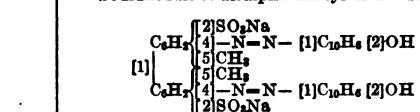
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
379	BENZO NEW BLUE.....1890 Sodium salt of ditolyl-disazo-α-naphthol-4-sulphonic-chromotropic acid. 	.....	7,577	$912
	Benzo New Blue 2 B (S. H. IV, 1709-1710).....	By		
	Benzo New Blue 5 B (S.; Kal. 1910).....	By		
379a	NAPHTHAMINE BRILLIANT BLUE.....	.....	5,865	1,966
	Naphthamine Brilliant Blue B.....1907	K		
	Naphthamine Brilliant Blue G 3701.....	K		
379b	DIRECT BLUE 5 B.....	BK	992	
380	DIANIL BLUE B.....1890 Sodium salt of ditolyl-disazo-bi-chromotropic acid.	M	0	
381	AZO BLACK BLUE.....1890 Sodium salt of ditolyl-disazo-m-oxy-diphenylamine-1-amido-8-naphthol-3.6-sulphonic acid.	GrE	0	
382	AZO MAUVE B.....1890 Sodium salt of ditolyl-disazo-α-naphthylamine-1.8-amido-naphthol-3.6-disulphonic acid.	GrE	0	
383	NAPHTHAZURINE.....1891 Sodium salt of ditolyl-disazo-β-naphthylamine-1.8-amido-naphthol-3.6-disulphonic acid. 	.....	4,782	1,062
	Naphthazurine 3703.....	K		
	Naphthazurine BA.....	GrE		
384	CHICAGO BLUE 2 R.....1894 Sodium salt of ditolyl-disazo-2-naphthol-8-sulphonic-1.8-amido-naphthol-4-sulphonic acid. 	A	2,152	
384a	DIAMINE BLUE (V. M.).....	.....	21,725	3,667
	Diamine Blue 32 C 1357 (S.; S. H. IV, 1138, 1188, 1196, 1209, 1211, 1243, 1671, 1672). (Current marks, AB, AZ, B, 2 B, 3 B, BG, BX, C 4 B, CBG, 6 G, C 2 R, C 4 R, LG, LR, NC, RW, 3 R, SRX, 50, 52, 53 A, 55, 56.).....	C		
	Diamine Blue 4 L 472.....	C		
	Diamine Blue R 43.....	C		
	Diamine Blue SSS 212.....	C		
	Diamine Blue 3 T 213.....	C		
	Diamine Blue WW 403.....	C		
385	OXAMINE BLUE.....1893 Sodium salt of ditolyl-disazo-α-naphthol-sulphonic-amido-naphthol-sulphonic acid. 	.....	573	103
	Oxamine Blue 4 R.....	B		
	Benzazurine 3 R.....	GrE		

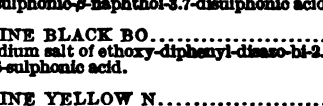
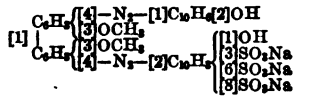
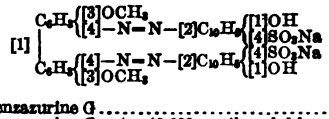
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
386	BENZO BLUE.....1890 Sodium salt of ditolyl-disazo-α-naphthol-sulphonic-amido-naphthol-disulphonic acid.  Benzo Blue BX Azidine Blue BX	..... By CJ	1,740	$305
387	COLUMBIA BLUE.....1894 Sodium salt of ditolyl-disazo-α-naphthol-3.8-disulphonic-1.8-amido-naphthol-4-sulphonic acid.  Columbia Blue G Columbia Blue GM	..... A A	7,094	1,142
388	CHICAGO BLUE R.....1894 Sodium salt of ditolyl-disazo-bi-1.8-amido-naphthol-4-sulphonic acid.	A	0	
389	EBOLI BLUE B.....1895 Sodium salt of ditolyl-disazo-bi-1.8-amido-naphthol-3.5-disulphonic acid.	L	0	
390	BENZO CYANINE B.....1893 Sodium salt of ditolyl-disazo-1.8-amido-naphthol-3.6-disulphonic-1.8-amido-naphthol-4-sulphonic acid. 	By	201	
391	BENZO BLUE.....1890 Sodium salt of ditolyl-disazo-bi-amido-naphthol-disulphonic acid.  Congo Blue 3 B Benzo Blue 3 B Trypan Blue Azidine Blue 3 B conc	..... A By M CJ	1,365	285
392	TOLUYLENE ORANGE.....1888 Sodium salt of ditolyl-disazo-o-cresol-carboxylic-m-toluylene-diamine-sulphonic acid.  Toluylene Orange G extra 60:100 Pluto Orange G Toluylene Orange G	..... A By By	55,562	13,296

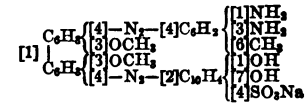
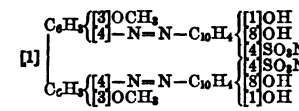
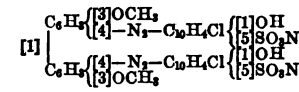
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
392	TOLUYLENE ORANGE—Continued.			
	Azidine Orange G conc. 130 per cent	CJ		
	Toluylene Orange GOO	GrE		
	Direct Orange G	I		
	Toluylene Orange G conc. 7:10	S		
392a	RENOL ORANGE		681	$2
	Renol Orange 3 AP	tM		
	Renol Orange 3 AP	G		
392b	DIRECT ORANGE (V. M.)		7,540	2,7
	Direct Orange 1901	BK		
	Direct Orange 6693	I		
	Direct Orange BR	S		
	Direct Orange G conc	S		
392c	DIRECT FAST ORANGE 16710	I	2,255	
392d	TOLUYLENE FAST ORANGE GL (S.) 1908	By	994	
393	DIPHENYL BROWN 3 GN 1895 Sodium salt of ditolyl-disazo-salicylic-dimethyl-2-amido-8-naphthol-6-sulphonic acid.	G	0	
394	CHRYSAMINE R 1884 Sodium salt of ditolyl-disazo-bi-salicylic acid.		6,261	1,2
				
	Chrysamine R	By		
	Chrysamine R	I		
395	CRESOTINE YELLOW R 1888 Sodium salt of ditolyl-disazo-bi-o-cresol-carboxylic acid.	GrE	0	
396	INDAZURINE RM 1894 Sodium salt of ditolyl-disazo-1.7-dioxy-2-naphthoic-4-sulphonic-α-naphthol-4-sulphonic acid.	I	0	
397	DIRECT BLUE R 1891 Sodium salt of ditolyl-disazo-1.7-dioxy-2-naphthoic-4-sulphonic-α-naphthol-4-sulphonic acid.	I	0	
398	DIRECT GRAY B 1891 Sodium salt of ditolyl-disazo-bi-1.7-dioxy-6-naphthoic-3-sulphonic acid.	I	0	
399	INDAZURINE TS 1894 Sodium salt of ditolyl-disazo-1.7-dioxy-2-naphthoic-3-sulphonic-2-amido-8-naphthol-6-sulphonic acid.	I	0	
400	ACID ANTHRACENE RED 1904 Sodium salt of disulpho-ditolyl-disazo-bi-β-naphthol.		14,120	4,15
				
	Acid Anthracene Red 3 B	By		
	Milling Scarlet 4 R	M		
	Milling Scarlet 4 R conc	M		
400a	ACID ANTHRACENE RED (V. M.)		3,440	1,01
	Acid Anthracene Red 5 BL (S.; Kal. 1909) 1908	By		
	Acid Anthracene Red G (S.; Kal. 1905; S. H. IV, 2429)	By		
400b	MILLING SCARLET (V. M.)		770	17
	Milling Scarlet B	M		
	Milling Scarlet G	M		
401	DIAMINE BLUE 3 R 1887 Sodium salt of ethoxy-diphenyl-disazo-bi-α-naphthol-4-sulphonic acid.	C	0	

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
402	DIAMINE BLUE BLACK E.....1889 Sodium salt of ethoxy-diphenyl-disazo-2.8-amido-naphthol-6-sulphonic-β-naphthol-3.7-disulphonic acid.	C	0	
403	DIAMINE BLACK BO.....1899 Sodium salt of ethoxy-diphenyl-disazo-bi-2.8-amido-naphthol-6-sulphonic acid.	C	0	
404	DIAMINE YELLOW N.....1887 Sodium salt of ethoxy-diphenyl-disazo-phenetol-salicylic acid.	C	0	
405	BENZOPURPURINE 10 B.....1885 Sodium salt of dimethoxy-diphenyl-disazo-bi-naphthionic acid.	.....	47,768	$11,181
				
	Benzopurpurine 10 B	A		
	Benzopurpurine 10 B	By		
	Benzopurpurine 10 B conc. 24197	By		
	Benzopurpurine 10 B 200 per cent	CG		
	Benzopurpurine 10 B	GrE		
	Benzopurpurine 10 B extra conc	tM		
	Benzopurpurine 10 B	AW		
	Benzopurpurine 10 B extra conc	AW		
	Benzopurpurine 10 B extra strong	AW		
	Benzopurpurine 10 B extra conc	G		
	Benzopurpurine 10 B	I		
	Benzopurpurine 10 B	S		
	Sultan 10 B	H		
	Sultan 10 B 20 per cent	H		
406	DIAZURINE B.....1891 Sodium salt of dimethoxy-diphenyl-disazo-bi-α-naphthyl-amine-5-sulphonic acid.	By	0	
407	AZO VIOLET.....1886 Sodium salt of dimethoxy-diphenyl-disazo-naphthionic-α-naphthol-4-sulphonic acid.	By	0	
408	AZOPHOR BLACK S.....1893 A mixture of tetrazo-dianisol with other diazo compounds, derivatives of benzidine, nitraniline, etc.	M	240	
409	TRISULPHON BLUE B conc. 1:3.....1896 Sodium salt of dimethoxy-diphenyl-disazo-β-naphthol-α-naphthol-3.6.8-trisulphonic acid.	S	563	
				
409a	TRISULPHON BLUE 3 G.....	S	230	
410	BENZAZURINE (V. M.).....1885 Sodium salt of dimethoxy-diphenyl-disazo-bi-α-naphthol-4-sulphonic acid.	.....	78,699	21,018
				
	Benzazurine G	A		
	Benzazurine G extra 40:100, easily soluble	A		
	Oxamine Blue A extra	B		
	Oxamine Blue AX	B		
	Benzazurine G	By		
	Benzazurine G conc	By		
	Benzazurine G conc. 21749	By		

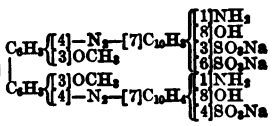
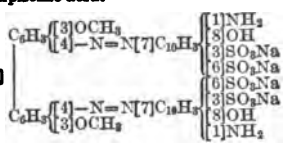
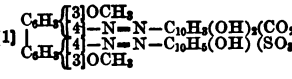
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
410	BENZAZURINE—Continued.			
	Benzazurine R	By		
	Benzazurine 3684. (Current marks, G, R.)	K		
	Benzazurine 3706	K		
	Benzoin Blue 5 GN conc	BK		
	Benzazurine G 250 per cent	CG		
	Azidine Blue B	CJ		
	Azidine Blue B conc	CJ		
	Azidine Blue BALG (Kal. 1914)	CJ		
	Azidine Blue BAN	CJ		
	Azidine Blue 24574	CJ		
	Renol Blue B extra	tM		
	Renol Blue B conc	tM		
	Benzazurine G conc	S		
411	BENZAZURINE 3 G.....1885 Sodium salt of dimethoxy-diphenyl-disazo-bi-α-naphthol-5-sulphonic acid.	By	0	
412	CONGO BLUE 2 B.....1890 Sodium salt of dimethoxy-diphenyl-disazo-α-naphthol-4-sulphonic-β-naphthol-3.6-disulphonic acid.	By	0	
413	DIRECT VIOLET BB.....1894 Sodium salt of dimethoxy-diphenyl-disazo-m-tolylene-diamine-dioxy-naphthalene-sulphonic acid.	I	0	
				
413a	DIRECT VIOLET (V. M.)		4,396	$1,231
	Direct Violet 12932 (S. H. IV, 1739)	I		
	Direct Violet 18510	I		
	Direct Violet RR	S		
	Direct Violet RR conc. 7:10	S		
	Direct Violet B	H		
414	INDAZURINE B.....1894 Sodium salt of dimethoxy-diphenyl-disazo-β-naphthol-3.6-disulphonic-1.7-dioxy-naphthalene-4-sulphonic acid.	I	0	
415	DIANIL BLUE G.....1890 Sodium salt of dimethoxy-diphenyl-disazo-bi-chromotropic acid.	M	0	
416	BRILLIANT AZURINE 5 G.....1889 Sodium salt of dimethoxy-diphenyl-disazo-bi-dioxy-naphthalene-sulphonic acid.	By	18,395	
				
416a	BRILLIANT AZURINE (V. M.)		8,929	650
	Brilliant Azurine B (S.; S. H. IV, 1633)	By		
	Brilliant Azurine R (S.; S. H. IV, 1649)	By		
	Brilliant Azurine 5 R (S.; S. H. IV, 1651)	By		
417	CHLORAZOL BLUE.....1898 Dimethoxy-diphenyl-disazo-bi-chloro-α-naphthol-sulphonic acid.		2,948	856
				
	Chlorazol Blue GBDS	H		
	Chlorazol Blue R 5 per cent	H		

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
417a	CHLORAZOL BRILLIANT BLUE (V. M.)	.....	7,203	$1,878
	Chlorazol Brilliant Blue 10 B extra	H		
	Chlorazol Brilliant Blue 3 B	H		
	Chlorazol Brilliant Blue 14 B (Kal. 1908)	H		
	Chlorazol Brilliant Blue F	H		
418	DIAMINE BRILLIANT BLUE G.....1893 Sodium salt of dimethoxy-diphenyl-disazo-bi-8.1-chloro-naphthol-disulphonic acid. $C_6H_3\{[4]-N_2-[2]C_{10}H_5\{[1]OH, [3]SO_3Na, [6]SO_3Na, [8]Cl$ [1] $C_6H_3\{[3]OCH_3, [4]-N_2-[2]C_{10}H_5\{[8]Cl, [6]SO_3Na, [3]SO_3Na, [1]OH$	C	11,592	
419	CHICAGO BLUE RW.....1904 Sodium salt of dimethoxy-diphenyl-disazo-β-naphthol-1.8-amido-naphthol-2.4-disulphonic acid. $C_6H_3\{[4]-N_2-[1]C_{10}H_4[2]OH, [3]OCH_3$ [1] $C_6H_3\{[3]OCH_3, [4]-N_2-[7]C_{10}H_5\{[1]NH_2, [8]OH, [2]SO_3Na, [4]SO_3Na$	.....	15,176	
	Chicago Blue RW	A		
	Benzo Blue RW	By		
420	AZIDINE WOOL BLUE B.....1906 Sodium salt of dimethoxy-diphenyl-disazo-2-naphthol-8-sulphonic-1.8-amido-naphthol-4-sulphonic acid.	CJ	0	
421	OXAMINE BLUE B.....1903 Sodium salt of dimethoxy-diphenyl-disazo-α-naphthol-sulphonic-amido-naphthol-sulphonic acid. $C_6H_3\{[4]-N_2-[2]C_{10}H_5\{[1]OH, [4]SO_3Na$ [1] $C_6H_3\{[3]OCH_3, [4]-N_2-[6]C_{10}H_4\{[1]NH_2, [5]OH, [7]SO_3Na$	B	14,001	
421a	OXAMINE BLUE (V. M.)	.....	21,809	3,749
	Oxamine Blue 3 B (S.; S. H. IV, 1645).....1900	B		
	Oxamine Blue BG (S. 1901)	B		
	Oxamine Blue GNX (S.; Kal. 1908)	B		
	Oxamine Blue 3 R (R. 29, preparation)	B		
422	CHICAGO BLUE 4 B.....1894 Sodium salt of dimethoxy-diphenyl-disazo-1.8-amido-naphthol-2.4-disulphonic-1.8-amido-naphthol-4-sulphonic acid. $C_6H_3\{[4]-N_2-[7]C_{10}H_5\{[1]NH_2, [8]OH, [2]SO_3Na, [4]SO_3Na$ [1] $C_6H_3\{[3]OCH_3, [4]-N_2-[7]C_{10}H_4\{[1]NH_2, [8]OH, [4]SO_3Na$	A	4,453	
422a	CHICAGO BLUE new	A	3,516	
423	CHICAGO BLUE B.....1903 Sodium salt of dimethoxy-diphenyl-disazo-bi-1.8-amido-naphthol-4-sulphonic acid.	A	0	
424	CHICAGO BLUE 6 B.....1894 Sodium salt of dimethoxy-diphenyl-disazo-bi-amido-naphthol-disulphonic acid. $C_6H_3\{[4]-N_2-[7]C_{10}H_5\{[1]NH_2, [8]OH, [2]SO_3Na, [4]SO_3Na$ [1] $C_6H_3\{[3]OCH_3, [4]-N_2-[7]C_{10}H_5\{[1]NH_2, [8]OH, [2]SO_3Na, [4]SO_3Na$	.....	116,560	32,417

V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
424	CHICAGO BLUE—Continued.			
	Chicago Blue 6 B	A		
	Chicago Blue 6 B 85089	A		
	Oxamine Pure Blue 6 BXX conc	B		
	Brilliant Benzo Blue 6 B	By		
	Brilliant Benzo Blue 6 B conc. 27758	By		
	Azidine Sky Blue FF conc	CJ		
424a	DIANOL BLUE 402	Lev	500	
424b	DIANOL BRILLIANT BLUE G	Lev	1,482	
425	BENZO CYANINE 3 B....1895 Sodium salt of methoxy-diphenyl-disazo-1.8-amido-naphthol-3.6-disulphonic-1.8-amido-naphthol-4-sulphonic acid. 	By	1,001	
426	BENZAMINE PURE BLUE....1900 Sodium salt of dimethoxy-diphenyl-disazo-bi-amido-naphthol-disulphonic acid. 	.....	12,881	$5,063
	Benzo Sky Blue	By		
	Benzamine Pure Blue extra conc	WD		
427	INDAZURINE GM....1894 Sodium salt of dimethoxy-diphenyl-disazo-1.7-dioxy-2-naphthoic-4-sulphonic-α-naphthol-4-sulphonic acid.	I	0	
428	DIRECT BLUE B....1891 Sodium salt of dimethoxy-diphenyl-disazo-1.7-dioxy-6-naphthoic-3-sulphonic-α-naphthol-4-sulphonic acid. 	I	0	
428a	DIRECT BLUE (V. M.)	.....	21,322	5,366
	Direct Blue GN 250 per cent	CG		
	Direct Blue C conc	AW		
	Direct Blue G	AW		
	Direct Blue BX	I		
	Direct Blue 3 B	I		
	Direct Blue RW	I		
	Direct Blue 30	I		
	Direct Blue 13503	I		
	Direct Blue 13108	I		
	Direct Blue 3 G	S		
	Direct Blue 7079	CV		
	Direct Blue 51096	H		
	Direct Blue (for black) 20 per cent	H		
	Direct Blue AB	Q		
	Direct Blue 5 B (bluish) red	Q		
428b	DIRECT BRILLIANT BLUE 8 B (Kal. 1913)	I	99	
429	INDAZURINE BB....1894 Sodium salt of dimethoxy-diphenyl-disazo-1.7-dioxy-2-naphthoic-4-sulphonic-β-naphthol-3.6-disulphonic acid.	I	0	
430	INDAZURINE 5 GM....1894 Sodium salt of dimethoxy-diphenyl-disazo-1.7-dioxy-2-naphthoic-4-sulphonic-1.8-amido-naphthol-3.6-disulphonic acid.	I	0	

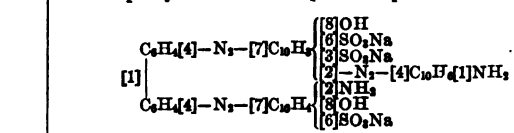
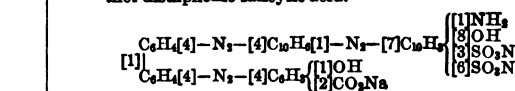
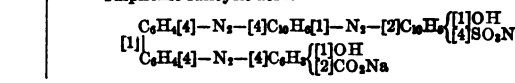
V. AZO COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
431	DIAMINE GOLD..........1890 Sodium salt of disulphonaphthylene-disazo-phenetol-phenol. $C_{10}H_4\left\{\begin{array}{l}{[1]}N=N{[1]}C_6H_4{[4]}OC_2H_5\\ {[3]}SO_3Na\\ {[7]}SO_3Na\\ {[5]}N=N{[1]}C_6H_4{[4]}OH\end{array}\right.$	C	0	
432	DIAMINE CUTCH..........1890 Sodium salt of disulphonaphthylene-disazo-bi-α-naphthylamine. $C_{10}H_4\left\{\begin{array}{l}{[1]}N=N{[4]}C_{10}H_6{[1]}NH_2\\ {[3]}SO_3Na\\ {[7]}SO_3Na\\ {[5]}N=N{[4]}C_{10}H_6{[1]}NH_2\end{array}\right.$	C	300	
433	COOMASSIE BLACK B..........1895 Sodium salt of 2-sulphonaphthylene-disazo-β-naphthylamine-β-naphthol-3.6-disulphonic acid.	Lev	0	
434	COOMASSIE NAVY BLUE..........1895 Sodium salt of 2-sulphonaphthylene-disazo-β-naphthol-β-naphthol-3.6-disulphonic acid.	Lev	0	

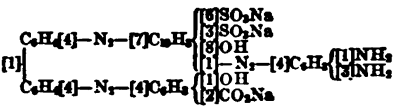
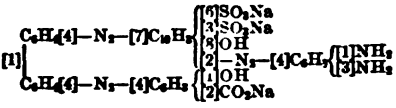
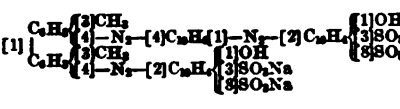
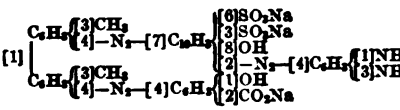
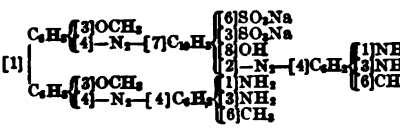
C. TRISAZO COLORS.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
	(a) Type: $\left.\begin{array}{r}R\longrightarrow K\\ R^1\end{array}\right\}K^1$ (R and R^1 represent diazo compounds.)			
435	JANUS BROWN B..........1896 Diazotised m-amino-phenyl-trimethyl-ammonium chloride is combined with α-naphthylamine; the product is diazotised and combined with chrysoidine. $N(CH_3)_3Cl.C_6H_4.N_2.C_{10}H_6.N_2.C_6H_3(NH_2)_2.N_2.C_6H_5$	M	0	
	(b) Type: $R\left\{\begin{array}{l}K\\ K^1-K^2\end{array}\right.$ (R represents a diamine. After diazotisation and combination with K and K^1 the latter component is diazotised and combined with K^2.)			
436	COLUMBIA BLACK..........1896 Sodium salt of benzene-disazo-α-naphthylamine-sulphonic-acid-1-naphthol-6-sulphonic-acid-azo-m-phenylene-diamine. $C_6H_4\left\{\begin{array}{l}{[1]}N_2-{[4]}C_{10}H_5\left\{\begin{array}{l}{[1]}NH_2\\ {[6]}\text{or}{[7]}SO_3Na\end{array}\right.\\ {[4]}N_2-{[7]}C_{10}H_4\left\{\begin{array}{l}{[8]}OH\\ {[2]}-N_2-{[4]}C_6H_3\left\{\begin{array}{l}{[1]}NH_2\\ {[3]}NH_2\end{array}\right.\\ {[6]}SO_3Na\end{array}\right.\end{array}\right.$	....	290,902	$41,563
	Columbia Black FB..........	A		
	Columbia Black FB strong 50 : 100..........	A		
	Columbia Black F 2 B conc..........	A		
	Columbia Black FF..........	A		
	Columbia Black FF extra..........	A		
	Columbia Black FF extra conc..........	A		
	Columbia Black FF extra strong..........	A		
	Columbia Black FF extra H..........	A		
	Columbia Black FF extra J..........	A		
	Columbia Black FF extra M..........	A		
	Columbia Black FF extra S..........	A		
	Columbia Black FF extra, new..........	A		
436a	DIANOL BLACK..........	....	112,695	12,635
	Dianol Black BH..........	Lev		
	Dianol Black E..........	Lev		
	Dianol Black EX..........	Lev		
	Dianol Black extra..........	Lev		
	Dianol Black extra conc..........	Lev		
	Dianol Black 4500..........	Lev		
	Dianol Black 4534..........	Lev		
	Dianol Black 6100..........	Lev		

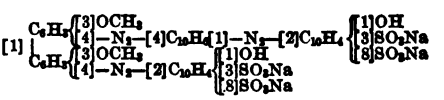
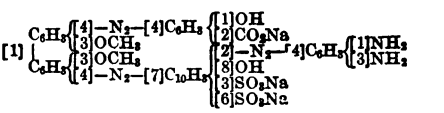
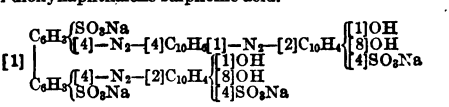
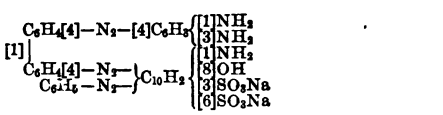
C. TRISAZO COLORS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
436a	DIANOL BLACK—Continued.			
	Dianol Black 6312	Lev		
	Dianol Black 6400	Lev		
	Dianol Black 6525	Lev		
437	ISODIPHENYL BLACK....1897 Sodium salt of benzene-disazo-8-naphthol-6-sulphonic-acid-azo-m-phenylene-diamine-resorcin.	G	0	
438	MELOGENE BLUE BH....1896 Sodium salt of diphenyl-disazo-p-xylene-azo-bi-1.8-amido-naphthol-3.6-disulphonic acid.	S	0	
439	DIRECT INDIGO BLUE A....1893 Sodium salt of diphenyl-disazo-cresol-ether-azo-amido-naphthol-disulphonic-amidophenol-disulphonic acid.	I	0	
440	DIRECT INDIGO BLUE BK....1893 Sodium salt of diphenyl-disazo-cresol-ether-azo-bi-2.8-amido-naphthol-6-sulphonic acid.	I	0	
441	DIAZO BLUE BLACK RS....1892 Sodium salt of diphenyl-disazo-1.8-amido-naphthol-3.6-sulphonic-α-naphthalene-azo-1.8-amido-naphthol-3.6-sulphonic acid.	By	0	
442	DIRECT BLACK V....1896 Sodium salt of diphenyl-disazo-naphthol-disulphonic-azo-α-naphthylamine-amido-naphthol-sulphonic acid. 	S	0	
442a	DIRECT BLACK (V. M.).... Direct Black 3 G.... Direct Black RO conc 4 : 10.... Direct Black 33336.... Direct Black 7565.... Direct Black 58219.... Direct Black 64501.... Direct Black 65450.... Direct Black 70823.... Direct Black D....	.... S S S CV H H H H Q	145,738	$11,831
443	DIRECT INDONE BLUE R....1896 Sodium salt of diphenyl-disazo-8-naphthol-3.6-disulphonic-azo-α-naphthylamine-1.8-amido-naphthol-3.6-disulphonic acid.	S	0	
444	CRUMPSALL DIRECT FAST BROWN B....1895 Sodium salt of diphenyl-disazo-benzene-azo-2.8-amido-naphthol-6-sulphonic-salicylic acid.	Lev	0	
445	CRUMPSALL DIRECT FAST BROWN O....1895 Sodium salt of diphenyl-disazo-benzene-azo-2-phenyl-amido-8-naphthol-6-sulphonic-salicyclic acid.	Lev	0	
446	BENZO OLIVE....1891 Sodium salt of diphenyl-disazo-α-naphthalene-azo-amido-naphthol-disulphonic-salicylic acid. 	By	1,169	
447	BENZO GRAY S extra....1890 Sodium salt of diphenyl-disazo-α-naphthalene-azo-α-naphthol-sulphonic-salicylic acid. 	By	802	

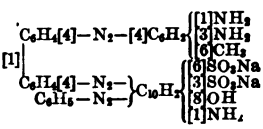
C. TRISAZO COLORS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
448	DIAMINE BRONZE B 431. (Current marks, B, G.).....1891 Sodium salt of diphenyl-disazo-naphthol-disulphonic-azo-m-phenylene-diamine-salicylic acid. 	C	4,696	
449	TRISULPHON BROWN.....1897 Sodium salt of diphenyl-disazo-naphthol-disulphonic-azo-m-phenylene-diamine-salicylic acid. 	.....	16,781	$5,255
	Trisulphon Brown A.....	S		
	Trisulphon Brown B.....	S		
	Trisulphon Brown B conc.....	S		
	Trisulphon Brown B extra conc. 55 : 100.....	S		
	Trisulphon Brown B conc. 5 : 10.....	S		
	Trisulphon Brown MB conc.....	S		
450	BENZO BLACK BLUE R.....1887 Sodium salt of ditolyl-disazo-α-naphthalene-azo-bi-α-naphthol-4-sulphonic acid.	By	0	
451	CONGO FAST BLUE.....1890 Sodium salt of ditolyl-disazo-α-naphthalene-azo-bi-α-naphthol-disulphonic acid. 	.....	4,449	1,035
	Congo Fast Blue R extra.....	A		
	Benzo Fast Blue R.....	A		
452	BENZO INDIGO BLUE.....1891 Sodium salt of ditolyl-disazo-α-naphthalene-azo-bi-1.8-dioxy-naphthalene-4-sulphonic acid.	By	0	
453	COLUMBIA BLACK R.....1893 Sodium salt of ditolyl-disazo-8-naphthol-3.6-disulphonic acid-azo-bi-m-toluylene-diamine.	A	1,307	
454	TRISULPHON BROWN G..... Sodium salt of ditolyl-disazo-naphthol-disulphonic-azo-m-phenylene-diamine-salicylic acid. 	S	1,333	
455	DIRECT BLUE BLACK.....1893 Sodium salt of dimethoxy-diphenyl-disazo-naphthol-disulphonic-azo-bi-m-toluylene-diamine. 	.....	7,191	1,261
	Columbia Black B.....	A		
	Direct Blue Black B.....	By		

C. TRISAZO COLORS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
455a	COLUMBIA BLACK (V. M.)	.....	143,954	$26,125
	Columbia Black EA extra conc. (S.; S. H. IV, 1830-32)...1902	A		
	Columbia Black EA extra conc. 40:100	A		
	Columbia Black EA extra conc.	A		
	Columbia Black WA extra extra 55:100 (S.; S. H. IV, 1832).1902	A		
455b	DIRECT BLUE BLACK 313	Lev	14,590	
456	BENZO FAST BLUE.....1890 Sodium salt of dimethoxy-diphenyl-disazo-α-naphthalene-azo-bi-α-naphthol-disulphonic acid.	.....	73,936	20,607
				
	Congo Fast Blue B extra	A		
	Benzo Fast Blue B	By		
	Benzo Fast Blue BN (S.; S. H. IV, 1654).....1900	By		
456a	BENZO FAST BLUE (V. M.)	.....	26,559	8,439
	Benzo Fast Blue FRL (Kal. 1911)	By		
	Benzo Fast Blue 2 GL (Kal. 1913)	By		
	Benzo Fast Blue 4 GL	By		
	Benzo Fast Blue 2 L	By		
457	TRISULPHON BROWN GG.....1879 Sodium salt of dimethoxy-disazo-naphthol-disulphonic-azo-m-phenylene-diamine-salicylic acid.	S	7,562	
				
458	CARBON BLACK (V. M.); NAPHTHAMINE DIRECT BLACK (V. M.).....1899 Sulpho-p-phenylene-diamine is diazotised and combined with α-naphthylamine-sulphonic acid, and a diamine; the product is diazotised and combined with a second diamine.	K	0	
459	BENZO BLACK BLUE G.....1887 Sodium salt of disulpho-diphenyl-disazo-α-naphthalene-azo-bi-α-naphthol-4-sulphonic acid.	By	0	
460	BENZO BLACK BLUE 5 G.....1892 Sodium salt of disulpho-diphenyl-disazo-α-naphthalene-azo-bi-dioxynaphthalene-sulphonic acid.	By	602	
				
461	COOMASSIE UNION BLACKS.....1896 Sodium salt of 3-sulpho-naphthalene-disazo-8.6-naphthol-sulphonic-acid-azo-bi-m-phenylene-diamine (or m-toluylene diamine, or resorcin).	Lev	0	
	(c) Type:			
	(R represents a diamine; R^1, a monamine.)			
462	DIRECT DEEP BLACK EW.....1901 Sodium salt of diphenyl-disazo-m-phenylene-diamine-disulpho-amido-naphthol-azo-benzene.	.....	32,330	5,922
				

C. TRISAZO COLORS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
462	DIRECT DEEP BLACK—Continued.			
	Cotton Black RW extra conc	B		
	Direct Deep Black EW extra	By		
	Direct Deep Black EW extra 26685	By		
462a	DIREGT DEEP BLACK E		862,601	$110,009
	Direct Deep Black E (S. H. IV, 1857; R. 62)—1898	By		
	Direct Deep Black E extra (S. H. IV, 1857; R. 62)	By		
	Direct Deep Black E extra 25915	By		
	Direct Deep Black E extra 25996	By		
	Direct Deep Black E extra 27405	By		
	Direct Deep Black E extra conc	By		
	Direct Deep Black E extra conc. 23393	By		
	Direct Deep Black E extra conc. 27469	By		
462b	RENOL BLACK		7,198	1,635
	Renol Black BHN	tM		
	Renol Black SF extra (Kal. 1911)	tM		
	Renol Black ST extra double conc	tM		
462c	COTTON BLACK (V. M.)		91,485	22,206
	Cotton Black	S		
	Cotton Black GS	S		
	Cotton Black RS	S		
	Cotton Black CC	Lev		
	Cotton Black CT	Lev		
	Cotton Black V paste	Lev		
	Cotton Black Y	Lev		
	Cotton Black BT	Q		
	Cotton Black extra 180	Q		
	Cotton Black 1792	Q		
462d	UNION BLACK (V. M.)		61,218	9,044
	Union Black SOJ	A		
	Union Black OO 510. (Current marks, A, B, BB, BG, P, S.)	C		
	Union Black BRN	S		
462e	UNION ACID BLACK (V. M.)		100	20
	Union Acid Black BH	H		
	Union Acid Black GH	H		
462f	CARBIDE BLACK (V. M.)		190,304	31,607
	Carbide Black E	I		
	Carbide Black EX (S. H. IV, 1924)	I		
	Carbide Fast Black GF (Kal. 1914)	I		
	Carbide Black SX (S. 1911)	I		
	Carbide Black conc. 4069	I		
462g	CARBIDE VIOLET V	I	800	
463	COTTON BLACK E—1901		248,567	34,602
	Sodium salt of diphenyl-disazo-m-toluylene-diamine-disulpho-amido-naphthol-azo-benzene.			
				
	Cotton Black E extra	B		
	Cotton Black E extra conc	B		
	Direct Deep Black RW extra	By		
	Direct Deep Black RW extra conc	By		
464	ERIE DIRECT GREEN ET—1901	Sch	0	
	Sodium salt of diphenyl-disazo-phenol-3.6-disulpho-1.8-amido-naphthol-azo-benzene.			
465	COLUMBIA BLACK GREEN D	A	0	
	Sodium salt of diphenyl-disazo-salicylic-4-sulpho-1.8-amido-naphthol-azo-benzene.			
466	EBOLI GREEN (V. M.)—1895	L	0	
	Sodium salt of diphenyl-disazo-salicylic-3-sulpho-1.7-amido-naphthol-azo-4-sulpho-benzene.			

C. TRISAZO COLORS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
467	DIPHENYL GREEN G.....1898 Sodium salt of diphenyl-disazo-phenol-3.6-disulpho-1.8-amido-naphthol-azo-chloronitrobenzene.	G	0	
468	DIPHENYL GREEN 3 G.....1898 Sodium salt of diphenyl-disazo-salicylic-3.6-disulpho-1.8-amido-naphthol-azo-chloronitrobenzene.	G	0	
469	CHLORAMINE BLACK N conc..... Sodium salt of diphenyl-disazo-m-phenylene-diamine-3.6-disulpho-1.8-amido-naphthol-azo-dichloro-benzene.	S	20,095	
469a	CHLORAMINE BLACK (V. M.)..... Chloramine Black EXD conc. powder..... Chloramine Black FF conc. powder.....	..... S S	13,505	$3,951
470	CHLORAMINE GREEN B.....1898 Sodium salt of diphenyl-disazo-phenol-disulpho-amido-naphthol-azo-dichloro-benzene.	.....	198	74
	Chloramine Green B..... Chloramine Green B conc. 5 : 10.....	S S		
470a	CHLORAMINE DARK GREEN B.....	S	1,477	
471	CHLORAMINE BLUE 3 G.....1899 Sodium salt of diphenyl-disazo-1.8-amido-naphthol-3.6-sulphonic-3.6-sulpho-1.8-amido-naphthol-azo-dichloro-benzene.	S	132	
471a	CHLORAMINE BLUE 3 B (Kal. 1907).....	S	55	
471b	CHLORAMINE PURE BLUE conc. 5:10 (S.).....	S	99	
472	CHLORAMINE BLUE HW.....1899 Sodium salt of diphenyl-disazo-2.8-amido-naphthol-6-sulphonic-3.6-disulpho-1.8-amido-naphthol-azo-dichloro-benzene.	S	0	
473	DIAMINE BLACK HW.....1891 Sodium salt of diphenyl-disazo-6-sulpho-2.8-amido-naphthol-3.6-disulpho-1.8-amido-naphthol-azo-nitrobenzene.	C	0	
474	OXAMINE GREEN B.....1891 Sodium salt of diphenyl-disazo-phenol-disulpho-amido-naphthol-azo-nitrobenzene.	.....	23,832	5,134
	Oxamine Green BX..... Renol Green B extra conc..... Dianol Green B.....	B tM Lev		

C. TRISAZO COLORS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
474a	DIAMINE GREEN (V. M.)	.....	53,268	$8,318
	Diamine Green P 423 (S.; Kal. 1914; R. 62). (Current marks, B, G, CL, G, HS, NA.)	C		
	Diamine Green S 425 (P)	C		
	Diamine Green 21 Y 1103 (P)	C		
475	OXAMINE GREEN GX (for paper) 1901	B	7,329	
	Sodium salt of diphenyl-disazo-salicylic-disulpho-amido-naphthol-azo-nitrobenzene.			
476	BENZAMINE BROWN 3 GO	WD	0	
	Sodium salt of diphenyl-disazo-salicylic-m-phenylene-diamine-4-sulpho-benzene.			
476a	BENZAMINE BROWN 3 G (S.—Preparation from anido-amido-azobenzene-sulphonic acid and m-phenylene-diamine)	WD	16,988	
477	CONGO BROWN 1880	.....	3,407	669
	Sodium salt of sulpho-benzene-azo-resorcin-azo-diphenyl-azo-salicylic acid.			
	Congo Brown G	A		
	Benzoin Brown C	BK		
477a	NAPHTHAMINE BROWN (V. M.)	.....	48,734	9,452
	Naphthamine Brown AMZ (S.; Kal. 1907, 1910, 1912; S. H. IV, 1804–1909). (Current marks, B, 2 B, 3 B, 8 B, D 3 G, D 5 G, D 6 G, G, 4 G, GR, GT, GX, H, O, 2 R, RB, T, U.)	K		
	Naphthamine Brown CMD	K		
	Naphthamine Brown D 3620	K		
	Naphthamine Brown 3834	K		
	Naphthamine Brown 3838	K		
	Naphthamine Brown 3842	K		
	Naphthamine Brown 5576	K		
	Naphthamine Brown G 3843	K		
	Naphthamine Brown G 3845	K		
478	COLUMBIA GREEN 1893	.....	24,749	4,723
	Sodium salt of diphenyl-disazo-salicylic-1.8-amido-naphthol-4-sulphonic-azo-benzene-4-sulphonic acid.			
	Columbia Green	A		
	Columbia Green B (S.; Kal. 1908, 1910)	A		
	Columbia Green B 80:100	A		
	Columbia Green 3 B 60:100	A		
	Columbia Green G	A		
	Columbia Green G 60:100	A		
478a	DIRECT GREEN (V. M.)	.....	19,313	4,291
	Direct Green B	I		
	Direct Green 3 GG (Kal. 1906)	I		
	Direct Green (S. H. IV, 1622)	I		
	Direct Green Y	I		
	Direct Green B extra (S.)	S		
	Direct Green B conc	S		
	Direct Green 9753	S		
	Direct Green 34267	S		
	Direct Green BC	Q		
	Direct Green B	Q		
	Direct Green U	Q		
478b	DIRECT DARK GREEN S	I	1,100	

C. TRISAZO COLORS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
479	DIANIL BLACK R.......................................1894 Sodium salt of diphenyl-disazo-m-phenylene-diamine-3.6-di-sulpho-1.8-dioxy-naphthalene-azo-naphthalene-4-sulphonic acid.	M	0	
480	CONGO BROWN R.......................................1888 Sodium salt of sulpho-naphthalene-azo-resorcin-azo-diphenyl-azo-salicylic acid. [1] $C_6H_4[4]-N_2-[4]C_6H_3\{[1]OH, [2]CO_2Na\}$ $C_6H_4[4]-N_2-[4]\}C_6H_2\{[1]OH, [3]OH\}$ $C_{10}H_6\{[1]-N_2-[2]\}$, $[5]SO_3Na$	A	3,045	
481	AZO CORINTH.......................................1892 Sodium salt of 4-sulpho-naphthalene-azo-resorcin-azo-ditolyl-azo-amido-phenol-sulphonic acid (III). (*d*) Type: R{K, K, K}	GrE	0	
482	ALIZARIN YELLOW FS.......................................1890 Diphenyl-tolyl-carbinol-trisazo-trisalicylic acid. $HO.C\{C_6H_4-N_2-C_6H_3(OH)CO_2H;\ C_7H_6-N_2-C_6H_3(OH)CO_2H;\ C_6H_4-N_2-C_6H_3(OH)CO_2H\}$ (*e*) Type: R—N—N—R, with K^1 under R, O under N—N, K under R	DH	0	
483	ROSOPHENINE.......................................1887 Sodium salt of azoxytoluene-disazo-bi-α-naphthol-sulphonic acid. $O\{N-C_6H_3(CH_3)-N=N-[2]C_{10}H_5\{[1]OH, [4]SO_3Na\};\ N-C_6H_3(CH_3)-N=N-[2]C_{10}H_5\{[4]SO_3Na, [1]OH\}\}$	ClCo	200	
483a	RED 2 S.......................................	P	1,296	
484	ACID MILLING SCARLET.......................................1889 Sodium salt of azoxy-toluene-disazo-α-naphthol-4-sulphonic-β-naphthol-3.6-disulphonic acid.	ClCo	0	

D. TETRAKISAZO COLORS.

No.	Commercial and chemical names and formulas.	Manufacturer.	Pounds.	Value.
	(*a*) Type: R, R^1, R with {K, K}			
485	BENZO BROWN G.......................................1887 Sodium salt of sulpho-benzene-azo-phenylene-brown. $C_6H_4\{[4]SO_3Na, [1]-N=N-[2]\}C_6H_2\{[1]NH_2, [3]NH_2\}$ $C_6H_4\{[1]-N=N-[4], [3]-N=N-[4]\}$ $C_6H_4\{[1]-N=N-[2]\}C_6H_2\{[1]NH_2, [3]NH_2\}$, $[4]SO_3Na$	By	0	
485a	BENZO BROWN (V. M.).......................................	....	41,905	$7,1
	Benzo Brown D 3 G extra.......................................	By		
	Benzo Brown 5 G 27916.......................................	By		
	Benzo Brown 2 GC.......................................	By		
	Benzo Brown 3 GC.......................................	By		
	Benzo Brown NBX.......................................	By		
	Benzo Brown MC.......................................	By		
	Benzo Brown RC.......................................	By		
	Benzo Brown TR 22439.......................................	By		

D. TETRAKISAZO COLORS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
486	DIRECT BROWN J..........1891	....	3,640	$1,095
	Sodium salt of carboxy-benzene-azo-phenylene-brown. (Derivative of Bismarck Brown, No. 283.)			
	$\begin{array}{r} C_6H_4(CO_2Na)-N=N-[2] \\ C_6H_4\left\{\begin{array}{l}[1]-N=N-[4]\\ [3]-N=N-[4]\end{array}\right. \\ C_6H_4(CO_2Na)-N=N-[2] \end{array} \begin{array}{l} \left.\right\}C_6H_3\left\{\begin{array}{l}[1]NH_2\\ [3]NH_2\end{array}\right. \\ \left.\right\}C_6H_3\left\{\begin{array}{l}[1]NH_2\\ [3]NH_2\end{array}\right. \end{array}$			
	Direct Brown JJB..........	I		
	Direct Brown JP..........	I		
487	BENZO BROWN B..........1887	By	493	
	Sodium salt of sulpho-naphthalene-azo-phenylene-brown. (Derivative of Bismarck Brown, No. 283.)			
	$\begin{array}{l} C_{10}H_6\left\{\begin{array}{l}[4]SO_3Na\\ [1]-N=N-[2]\end{array}\right. \\ C_6H_4\left\{\begin{array}{l}[1]-N=N-[4]\\ [3]-N=N-[4]\end{array}\right. \\ C_{10}H_6\left\{\begin{array}{l}[1]-N=N-[2]\\ [4]SO_3Na\end{array}\right. \end{array} \begin{array}{l} \left.\right\}C_6H_3\left\{\begin{array}{l}[1]NH_2\\ [3]NH_2\end{array}\right. \\ \left.\right\}C_6H_3\left\{\begin{array}{l}[1]NH_2\\ [3]NH_2\end{array}\right. \end{array}$			
488	TOLUYLENE BROWN R..........1889	GrE	201	
	Sodium salt of sulpho-toluene-disazo-bi-m-phenylene-diamine-azo-naphthalene-sulphonic acid.			
	$\begin{array}{r} C_{10}H_6(SO_3Na)-N_2 \\ C_6H_2(CH_3)\ (SO_3Na)\left\{\begin{array}{l}[1]-N_2\\ [3]-N_2\end{array}\right. \\ C_{10}H_6(SO_3Na)-N_2 \end{array} \begin{array}{l} \left.\right\}C_6H_3\left\{\begin{array}{l}[1]NH_2\\ [3]NH_2\end{array}\right. \\ \left.\right\}C_6H_3\left\{\begin{array}{l}[1]NH_2\\ [3]NH_2\end{array}\right. \end{array}$			
489	HESSIAN BROWN BBN..........1889	L	0	
	Sodium salt of diphenyl-disazo-bi-resorcin-azo-benzene-4-sulphonic acid.			
490	COTTON BROWN..........1890	....	5,099	1,118
	Obtained by the action of tetrazotised diamines (benzidine, etc.), or their sulpho derivatives, upon chrysoidines.			
	Benzo Brown BX..........	By		
	Cotton Brown B 9. (Current marks, A, N.)..........	C		
	Cotton Brown C 10..........	C		
490a	COTTON BROWN (V. M.)..........	....	23,975	5,207
	Cotton Brown T..........	I		
	Cotton Brown M..........	S		
	Cotton Brown T..........	S		
	Cotton Brown B..........	Lev		
	Cotton Brown FS..........	Lev		
	Cotton Brown 3 R..........	Lev		
	Cotton Brown 100..........	Lev		
	Cotton Brown 137..........	Lev		
	Cotton Brown 153..........	Lev		
	Cotton Brown CR..........	Q		
	(*b*) Type: $R\left\{\begin{array}{l}K-K^2\\ K-K^2\end{array}\right.$			
491	DIANIL BLACK PR..........1896	M	0	
	$[1]\ \begin{array}{l} C_6H_3\left\{\begin{array}{l}SO_3Na\\ -N=N-[7]C_{10}H_4\left\{\begin{array}{l}[6]SO_3Na\\ [8]OH\\ [2]N=N-[4]C_6H_3\left\{\begin{array}{l}[1]NH_2\\ [3]NH_2\end{array}\right.\end{array}\right.\end{array}\right. \\ \vert \\ C_6H_4-N=N-[7]C_{10}H_4\left\{\begin{array}{l}[2]N=N-[4]C_6H_3\left\{\begin{array}{l}[3]NH_2\\ [1]NH_2\end{array}\right.\\ [8]OH\\ [6]SO_3Na\end{array}\right. \end{array}$			
	(*c*) Type: $\left.\begin{array}{l}R-K\\ R-K\end{array}\right\}K^2$			
492	ANTHRACENE ACID BROWN B..........1896	M	0	
	$C_6H_2\left\{\begin{array}{l} -N=N-C_{10}H_6-N=N-C_6H_2\left\{\begin{array}{l}OH\\ CO_2H\\ NO_2\end{array}\right. \\ [1]NH_2 \\ [3]NH_2 \\ -N=N-C_{10}H_6-N=N-C_6H_2\left\{\begin{array}{l}OH\\ CO_2H\\ NO_2\end{array}\right. \end{array}\right.$			

E. UNCLASSIFIED AZO COLORS.

The following 824 azo dyes, enumerated under 765 heads, are currently manufactured in Europe and consumed in the United States. Their chemical composition and methods of manufacture have not yet been made public. In many cases their identity as monoazo, or disazo, or even polyazo colors has been established. It is probable that in numerous instances they might properly be listed under preceding colors, either as identical in composition or very closely allied chemically with the 462 azo dyes, the molecular structure of which has been ascertained with more or less accuracy.

The annual consumption of many of these dyes has assumed notable proportions. In nearly all cases very full details have been published regarding the physical, chemical, and tinctorial properties of these colors and the conditions under which they can be advantageously employed by the dyer. References to such sources of information as are available are found in connection with the great majority of the following names of colors as they appear alphabetically in the index to Schultz's "Farbstofftabellen," 5th edition (1914). The annual volumes of the German "Färberkalender" contain in a compact form much useful information on the new dyes or modifications of older dyes which have appeared during the preceding 12 months. Most valuable in this connection is the large Manual of Azo Colors, compiled by Prof. G. Schultz, forming Part IV of Heumann's treatise on "Die Anilinfarben und ihre Fabrikation." All known data on the azo colors up to 1906 are here gathered and carefully arranged in a volume of 2,600 pages. Much additional knowledge has accumulated during the past decade. It is eminently to be desired that it should be digested, classified, and made available for the practical needs of manufacturers and consumers of azo dyes.

Throughout the following section references are given to the index of Schultz's "Farbstofftabellen" (S.), to Schultz's treatise on the azo colors (S. H. IV), and to the "Färberkalender" (Kal.) whenever they furnish information regarding any individual dye.

The order followed in the enumeration of these unclassified azo dyes is essentially the same as that observed in listing different names and marks under the serial headings. The products of the six great German companies are first given, the companies being arranged in alphabetical order. Then follow the colors of the smaller German companies, likewise in alphabetical order, and of the Dutch, Belgian, French, Swiss, and British companies in similar arrangement. The azo colors manufactured by each company succeed each other, also in alphabetical order, with rare exceptions.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
A1	BRILLIANT BORDEAUX SD (S.; S. H. IV, 1400; S. J., 2d ed., 809)....1897	A	4,773	
	CHROMANIL BLACK....1898		8,079	$2,424
A2	Chromanil Black BF (S. H. IV, 1828-1829; S. J., 2d ed., 977)...	A		
A3	Chromanil Black FF extra	A		
A4	CHROMANIL BLUE R	A	597	
A5	CHROMANIL BROWN 2 G (S. H. IV, 1748; S. J., 2d ed., 959)..	A	3,706	
	CHROME FAST BLACK		76,451	10,172
A6	Chrome Fast Black F (S. 1907; R. 68)	A		
A7	Chrome Fast Black P 4 B (S.; Kal. 1908)	A		
A8	Chrome Fast Black PF (S.; Kal. 1908)	A		
A9	Chrome Fast Black PT (S.; Kal. 1908)	A		
A10	CHROME FAST BROWN R (S.; Kal. 1913)	A	99	
A11	CHROME FAST RED G (S.; S. H. IV, 1472, 1473, 1474)....1902	A	51	
	COLUMBIA BROWN		20,793	3,073
A12	Columbia Brown M (S.; Kal. 1906)	A		
A13	Columbia Brown R (S.; S. H. IV, 1750)	A		
A14	COLUMBIA ORANGE R (S.; S. H. IV, 1537)....1899	A	16,351	
A15	COLUMBIA VIOLET R (S.; S. H. IV, 1728)....1900	A	3,715	
	COLUMBIA FAST BLUE....1895		84,661	18,879
A16	Columbia Fast Blue 2 G (S.; S. J., 2d ed., 939; S. H. IV, 1635)..	A		
A17	Columbia Fast Blue R extra	A		
A18	COLUMBIA FAST SCARLET 4 B (S.; S. H. IV, 1563)....1900	A	1,638	
A19	CYPRUS GREEN B (S.; S. H. IV, 1407)....1900	A	1,400	
A20	DIRECT DEEP BLACK E extra conc. (S. H. IV, 1857)....1898	A	5,423	
	GUINEA CARMINE....1899		1,199	279
A22	Guinea Carmine B (S.; S. H. IV, 1383)	A		
A23	Guinea Carmine D	A		
A24	GUINEA RED 4 R (S.; S. H. IV, 1382)....1896	A	1,003	
A25	METACHROME OLIVE B powder (S.; Kal. 1911; R. 69)	A	3,194	
A26	METACHROME OLIVE BROWN G powder (S.; Kal. 1909; R. 69)	A	5,126	
A27	METACHROME YELLOW RA (S.; Kal. 1912; S. H. IV, 1468)....1903	A	575	

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	NAPHTHOGENE BLUE		33,847	$6,824
A28	Naphthogene Blue B (S.; Kal. 1909)	A		
A29	Naphthogene Blue 2 R (S.; S. H. IV, 1642; R. 63) 1902	A		
A30	Naphthogene Blue 4 R (S.; S. H. IV, 1643) 1903	A		
A31	Naphthogene Blue 6 R (S.; Kal. 1909)	A		
	NEROL		65,441	9,751
A32	Nerol B (S.; Kal. 1911; S. H. IV, 869)	A		
A32	Nerol B extra	A		
A33	Nerol 2 B (S.; Kal. 1911; S. H. IV, 869; R. 55)	A		
A33	Nerol 2 B extra (S.; Kal. 1911; S. H. IV, 869)	A		
A34	Nerol BL extra	A		
A35	Nerol 2 BL extra (S.; Kal. 1911)	A		
A36	Nerol VL (S.; Kal. 1911)	A		
A 37	ORTHO BLACK 3 B (S.; Kal. 1905; S. H. IV, 2423)....1904	A	1	
	ORTHO CYANINE		5,406	1,406
A38	Ortho Cyanine B (S.; Kal. 1905; S. H. IV, 2417)	A		
A39	Ortho Cyanine 6 G	A		
A44	SOLAMINE BLUE B (S.; Kal. 1903; S. H. IV, 1638)....1902	A	21,704	
A44a	SOLAMINE RED (S.; Kal. 1914)	A	3,179	
A45	TABORA BLACK X (S.; S. H. IV, 1827)....1892	A	298	
	ZAMBESI BLACK		639,359	107,669
A46	Zambesi Black B (S.; S. H. IV, 1832; S. J., 2d ed., 979)....1895	A		
A47	Zambesi Black 2 BA	A		
A48	Zambesi Black BH strong 50:100	A		
A49	Zambesi Black BR (S.; Kal. 1899; S. H. IV, 1837; S. J. 2d ed., 979)	A		
A50	Zambesi Black D (S.; S. H. IV, 1835; S. J., 2d ed., 979)..1896	A		
A50	Zambesi Black D extra	A		
A50	Zambesi Black D extra 60:100	A		
A51	Zambesi Black F (S.; S. H. IV, 1834)....1895	A		
A52	Zambesi Black OBA	A		
A53	Zambesi Black OTA	A		
A54	Zambesi Black R (S. H. IV, 1838)....1899	A		
A55	Zambesi Black V (S.; Kal. 1903; S. H. IV, 1840)....1902	A		
A55	Zambesi Black V new	A		
A56	Zambesi Black VM	A		
A57	ZAMBESI BORDEAUX TB	A	1,098	
	ZAMBESI RED		1,865	712
A58	Zambesi Red B (S.; Kal. 1907)	A		
A59	Zambesi Red 4 B	A		
A60	Zambesi Red 6 B	A		
A61	Zambesi Red 8 B	A		
A62	ZAMBESI RUBINE B	A	9,674	
	ZAMBESI SCARLET		9,331	3,529
A63	Zambesi Scarlet 6 B extra	A		
A64	Zambesi Scarlet 2 BL extra conc	A		
A65	Zambesi Scarlet FR extra	A		
A66	Zambesi Scarlet PR extra	A		
	AZO MAGENTA		4,742	1,823
A67	Azo Magenta 6 BX	B		
A68	Azo Magenta RS	B		
	CORVAN BLACK		19,683	1,870
A69	Corvan Black BG	B		
A70	Corvan Black T (S.)	B		
	COTTON BLACK		24,505	4,843
A71	Cotton Black 3 B (S.; S. H. IV, 1843)....1901	B		
A72	Cotton Black BGX (S.; 1904)	B		
A73	Cotton Black BNX (S.; S. H. IV, 1844)....1901	B		
A74	Cotton Black 4 extra conc	B		
A75	Cotton Black PF extra	B		
A75	Cotton Black PF extra conc	B		
A76	ETHYL BLUE B (S.; Kal. 1908)	B	450	

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	FAST RED		2,697	$332
A77	Fast Red A (new for silk)	B		
A78	Fast Red ANSX	B		
A79	Fast Red IBS	B		
A80	LITHOL CLARET B powder (S. 1908)....1908	B	99	
	LITHOL FAST ORANGE		36,641	4,381
A81	Lithol Fast Orange R paste (S.; R. Staeble, 106)	B		
A82	Lithol Fast Orange R 15813 powder	B		
	NEW CLARET		1,559	227
A83	New Claret B	B		
A84	New Claret B 22114	B		
A85	New Claret P	B		
A86	New Claret R	B		
A87	OXAMINE ACID BROWN G	B	4,658	
	OXAMINE BLACK		50,032	10,472
A88	Oxamine Black A (S.; S. H. IV, 1845)....1900	B		
A89	Oxamine Black BB	B		
A90	Oxamine Black BBNX	B		
A91	Oxamine Black BRTX	B		
A92	Oxamine Black RN (S. 1904)	B		
A93	OXAMINE BRILLIANT RED BX (S.; Kal. 1914)	B	2,879	
A94	OXAMINE BRILLIANT VIOLET RX	B	49	
	OXAMINE BROWN		93,454	22,569
A95	Oxamine Brown A	B		
A96	Oxamine Brown G (S. 1906; R. 62)....1906	B		
A97	Oxamine Brown 3 G (S. 1907)	B		
A98	Oxamine Brown GR	B		
A99	Oxamine Brown GX	B		
A100	Oxamine Brown 3 GX	B		
A101	OXAMINE CLARET B (S. 1907)	B	6,701	
	OXAMINE COPPER BLUE		10,222	1,941
A102	Oxamine Copper Blue RR (S.; Kal. 1908)	B		
A103	Oxamine Copper Blue RRX	B		
	OXAMINE DARK BLUE		23,810	4,246
A104	Oxamine Dark Blue BGE (S. 1905)	B		
A105	Oxamine Dark Blue BGX	B		
A106	Oxamine Dark Blue R (S. 1905)	B		
A107	Oxamine Dark Blue BRRX (S. 1906; Kal. 1908)	B		
	OXAMINE DARK BROWN		10,599	1,312
A108	Oxamine Dark Brown G	B		
A109	Oxamine Dark Brown R	B		
	OXAMINE FAST BLUE		7,935	2,362
A110	Oxamine Fast Blue 6 BX	B		
A111	Oxamine Fast Blue RR	B		
A112	OXAMINE FAST PINK BX	B	51	
	OXAMINE LIGHT BLUE		148	105
A113	Oxamine Light Blue B	B		
A114	Oxamine Light Blue GX	B		
	OXAMINE LIGHT BROWN		146	31
A115	Oxamine Light Brown G	B		
A116	Oxamine Light Brown R	B		
	OXAMINE LIGHT GREEN		122	38
A117	Oxamine Light Green B	B		
A118	Oxamine Light Green G	B		
A119	Oxamine Light Green 3 G	B		
	OXAMINE YELLOW		402	117
A120	Oxamine Yellow A (spirit)	B		
A121	Oxamine Yellow 3 G	B		
	PALATINE CHROME BLUE		42,244	4,679
A122	Palatine Chrome Blue BB (S. 1904)	B		
A123	Palatine Chrome Blue W 2 B	B		

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	PALATINE CHROME GREEN		19,665	$6,452
A124	Palatine Chrome Green G	B		
A125	Palatine Chrome Green GX	B		
A126	PALATINE CHROME RED R (S.)	B	798	
A127	PALATINE LIGHT YELLOW R (S. 1910)	B	1,587	
A128	PALATINE ORANGE R (X)	B	999	
A129	PHENAMINE BLUE G (S.; S. H. IV, 1643)—1894	B	300	
A130	PRIMAZINE YELLOW G extra (S.)	B	1,001	
	SCARLET		80,778	7,281
A131	Scarlet BN	B		
A132	Scarlet GA	B		
A133	Scarlet 15 N	B		
A134	Scarlet S 2 R	B		
A135	Scarlet S 3 R	B		
A136	Scarlet 2 SRM	B		
A137	Scarlet 7214	B		
A138	Scarlet (yellow shade) 17413	B		
A139	Scarlet (yellow shade) 24211	B		
	WOOL RED		851	165
A140	Wool Red G (S. 1903; a disazo compound from diamines)	B		
A141	Wool Red K 10 BX	B		
	WOOL SCARLET		12,780	1,417
A142	Wool Scarlet RR	B		
A143	Wool Scarlet 3 RB	B		
	ACID BLACK		18,660	2,031
A144	Acid Black E extra 27154	By		
A145	Acid Black M 26184	By		
A146	ACID BRILLIANT RED 2 B	By	66	
	ACID CHROME BLACK		39,508	8,052
A147	Acid Chrome Black LG 25736 (S.; S. H. IV, 1520)	By		
A147a	Acid Chrome Black G	I		
A148	Acid Chrome Black RH (S.; Kal. 1907)—1905	By		
A148a	Acid Chrome Black RHN (S.; Kal. 1907, 1908)—1907	BK		
A149	Acid Chrome Black WS 23250 (S.; S. H. IV, 1520)	By		
A150	ACID SILK BLACK R 27176	By	12,928	
A151	AZO ACID BROWN 26049 (S.; S. J., 2d ed., 853; S. H. IV, 1430)	By	2,002	
A152	AZO ALIZARIN BROWN I 27210	By	1,060	
A153	AZO CRIMSON S	By	6,193	
A154	BENZO BORDEAUX 6 B (S.; S. H. IV, 1576)—1900	By	7,271	
	BENZO BRONZE		721	157
A155	Benzo Bronze E	By		
A156	Benzo Bronze GC (S.; Kal. 1912)	By		
A157	BENZO CHROME BLACK BLUE B (S.; S. H. IV, 1648)—1897	By	51,315	
	BENZO CHROME BROWN		26,768	5,438
A158	Benzo Chrome Brown B (S.; S. H. IV, 1762)—1896	By		
A159	Benzo Chrome Brown BS (S.; S. H. IV, 1767)—1898	By		
A160	Benzo Chrome Brown G (S.; S. H. IV, 1761)—1896	By		
A161	Benzo Chrome Brown 5 G (S.; S. H. IV, 1766)—1898	By		
A162	Benzo Chrome Brown R (S.; S. H. IV, 1763)—1896	By		
	BENZO COPPER BLUE		4,768	931
A163	Benzo Copper Blue B (S.; S. H. IV, 1651)—1900	By		
A164	Benzo Copper Blue 2 B (S.; Kal. 1907)	By		
	BENZO DARK BROWN		2,015	337
A165	Benzo Dark Brown (S.; S. H. IV, 1754)—1892	By		
A165	Benzo Dark Brown extra	By		

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	BENZO DARK GREEN		12,038	$2,122
A166	Benzo Dark Green B (S.; S. H. IV, 1617)...1898	By		
A167	Benzo Dark Green GG (S. H. IV, 1618)...1900	By		
A168	BENZO DEEP BLACK SS (S.; Kal. 1911)	By	99	
	BENZO FAST BLACK		100,268	22,846
A169	Benzo Fast Black L (S.; S. H. IV, 1849)...1889	By		
A169	Benzo Fast Black L conc. 28235	By		
A170	BENZO FAST BORDEAUX 6 BL	By	6,056	
	BENZO FAST BROWN		9,782	3,108
A171	Benzo Fast Brown 3 GL	By		
A172	Benzo Fast Brown RL	By		
A173	BENZO FAST EOSINE BL	By	514	
	BENZO FAST GRAY		1,569	363
A174	Benzo Fast Gray (S.; S. H. IV, 1822)...1893	By		
A175	Benzo Fast Gray BL	By		
	BENZO FAST HELIOTROPE		13,013	5,541
A176	Benzo Fast Heliotrope BL	By		
A177	Benzo Fast Heliotrope 4 BL	By		
A178	Benzo Fast Heliotrope 5 RH	By		
A179	Benzo Fast Heliotrope 2 RL	By		
	BENZO FAST ORANGE		3,484	1,058
A180	Benzo Fast Orange 2 RL	By		
A181	Benzo Fast Orange S (S.; S. H. IV, 1540)	By		
A183	BENZO FAST RUBINE BL	By	249	
	BENZO GREEN		16,506	2,850
A184	Benzo Green BB (S.; S. H. IV, 1616)...1898	By		
A185	Benzo Green C (S.; S. H. IV, 1616)...1904	By		
A186	Benzo Green FF (R. 62)	By		
A187	Benzo Green FFG (R. 62)	By		
A188	Benzo Green G (S.; S. H. IV, 1615)	By		
A189	BENZO NEW RED 4 B (S.; Kal. 1912)	By	3,171	
A190	BENZO PURE YELLOW FF	By	249	
	BENZO RED		19,420	4,715
A191	Benzo Red 10 B (S.; S. H. IV, 1568)...1901	By		
A192	Benzo Red 12 B	By		
	BENZO RUBINE		4,765	1,242
A193	Benzo Rubine HW (S.; Kal. 1912)	By		
A194	Benzo Rubine SC (S.; Kal. 1911)	By		
A195	BENZO SCARLET BC (S.; Kal. 1909)	By	578	
A196	BENZOFORM BLUE B (Kal. 1914)	By	699	
A197	BENZOFORM BROWN R (Kal. 1914)	By	1,997	
A198	BENZOFORM ORANGE G (Kal. 1914)	By	1,098	
	BENZOFORM RED		701	249
A199	Benzoform Red G (Kal. 1914)	By		
A200	Benzoform Red 2 GF (Kal. 1914)	By		
A201	BENZOFORM SCARLET B	By	201	
A202	BENZOFORM YELLOW R (Kal. 1914)	By	1,497	
	BENZO RHODULINE RED		11,873	1,813
A203	Benzo Rhoduline Red B (S.; S. H. IV, 1572)...1900	By		
A204	Benzo Rhoduline Red 3 B (S.; S. H. IV, 1573)...1900	By		
A205	BISMARCK ACID BROWN	By	99	
	BRILLIANT BENZO FAST VIOLET		919	222
A206	Brilliant Benzo Fast Violet 2 RL (S.; Kal. 1910)	By		
A206a	Brilliant Benzo Fast Violet BL (S.; Kal. 1910)	By		

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
A207	BRILLIANT BENZO GREEN B (S.; S. H. IV, 1619)	By	2,350	
	BRILLIANT BENZO VIOLET		2,110	$717
A208	Brilliant Benzo Violet B (S.; Kal. 1908)	By		
A209	Brilliant Benzo Violet 2 R (S.; Kal. 1908)	By		
	BRILLIANT FAST BLUE		11,553	3,309
A210	Brilliant Fast Blue B (S.; Kal. 1908; R. 61)	By		
A211	Brilliant Fast Blue 3 BX (S.; Kal. 1911)	By		
A212	Brilliant Fast Blue 2 G (S.; Kal. 1908)	By		
A213	Brilliant Fast Blue 4 G (S.; Kal. 1910)	By		
A214	BRILLIANT FAST RED P (S.; Kal. 1905)	By	99	
	CASHMERE BLACK		12,269	1,881
A215	Cashmere Black 3 BN (S.; S. H. IV, 1454)	By		
A216	Cashmere Black V	By		
A217	CASHMERE BLUE TG extra (S., a mixture) 1905	By	6,074	
A218	CHLORAMINE BROWN G (S.; S. H. IV, 1757) 1895	By	952	
A219	CHLORAMINE RED 8 BS (S.; S. H. IV, 1584) 1903	By	9,748	
A220	CHLORAMINE VIOLET (S.)	By	201	
A221	CHLORAMINE VIOLET R (S.; S. H. IV, 1731) 1899	By	1,193	
A222	DIAMOND BORDEAUX R (S.; Kal. 1907)	By	273	
	DIAMOND RED		2,457	460
A223	Diamond Red BH	By		
A224	Diamond Red G (S.; Kal. 1910)	By		
A225	DIAZO BORDEAUX 7 B (S.; S. H. IV, 1585)	By	7,670	
A226	DIAZO BRILLIANT ORANGE GR extra (S.; Kal. 1908; 1913)	By	99	
	DIAZO BRILLIANT SCARLET		38,909	14,210
A227	Diazo Brilliant Scarlet B extra (S.; Kal. 1909)	By		
A228	Diazo Brilliant Scarlet 3 B extra	By		
A229	Diazo Brilliant Scarlet BG extra (S.; Kal. 1912, 1913)	By		
A230	Diazo Brilliant Scarlet 2 BL extra (S.; Kal. 1909)	By		
A230	Diazo Brilliant Scarlet 2 BL extra conc. (S.; Kal. 1909)	By		
A231	Diazo Brilliant Scarlet 5 BL (S.; Kal. 1909)	By		
A231	Diazo Brilliant Scarlet 5 BL extra (S.; Kal. 1909)	By		
A232	Diazo Brilliant Scarlet 6 B extra (S.; Kal. 1909)	By		
A233	Diazo Brilliant Scarlet G extra (S.; Kal. 1909)	By		
A234	Diazo Brilliant Scarlet PR extra (S.; Kal. 1909)	By		
A235	Diazo Brilliant Scarlet S 4 B	By		
A236	DIAZO BLUE X (S. H. IV, 1657) 1894	By	99	
	DIAZO BROWN		5,134	1,696
A237	Diazo Brown G (S.; S. H. IV, 1771) 1903	By		
A238	Diazo Brown 3 G (S.; S. H. IV, 1771)	By		
A239	Diazo Brown 6 G (S.; S. H. IV, 1771)	By		
A240	Diazo Brown NR extra (S.; S. H. IV, 1773)	By		
A241	Diazo Brown 3 RB (S.; S. H. IV, 1773)	By		
	DIAZO FAST BLACK		29,330	7,476
A242	Diazo Fast Black extra (S. H. IV, 1887)	By		
A243	Diazo Fast Black BHX (S.; S. H. IV, 1889) 1900	By		
A244	Diazo Fast Black G conc. (S.; S. H. IV, 1888) 1899	By		
A245	Diazo Fast Black MG (S.; S. H. IV, 1887)	By		
A245	Diazo Fast Black MG conc. 25023	By		
A246	Diazo Fast Black SD (S.; S. H. IV, 1890) 1902	By		
A246	Diazo Fast Black SD conc 1902	By		
A246	Diazo Fast Black SD conc. 22787	By		
A247	Diazo Fast Black V (S.; S. H. IV, 1887)	By		
A248	DIAZO FAST BORDEAUX BL	By	2,194	
A249	DIAZO FAST GREEN GE	By	201	
A250	DIAZO FAST RED 7 BL	By	1,398	
	DIAZO FAST VIOLET		145	59
A251	Diazo Fast Violet BL	By		
A252	Diazo Fast Violet 3 RL	By		

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	DIAZO FAST YELLOW		402	$157
A253	Diazo Fast Yellow G	By		
A254	Diazo Fast Yellow 2 G	By		
A255	DIAZO OLIVE G (S.; Kal. 1911)	By	1,299	
A255a	DIAZO PURE BLUE 3 GL (Kal. 1911)	By	220	
A256	DIAZO RUBINE B (S.; S. H. IV, 1587)—1902	By	8,833	
	DIAZO SKY BLUE		6,150	1,270
A257	Diazo Sky Blue B	By		
A258	Diazo Sky Blue 3 GL	By		
	DIRECT BLACK		12,042	2,019
A259	Direct Black FBS	By		
A260	Direct Black RC (Kal. 1909)	By		
A261	Direct Black VT (S. H. IV, 1860)—1899	By		
	DIRECT FAST BROWN		7,385	1,874
A262	Direct Fast Brown GG (S.; S. H. IV, 1760)—1896	By		
A262	Direct Fast Brown GG 28032 (S.; S. H. IV, 1760)—1896	By		
	DOUBLE PONCEAU		1,644	195
A263	Double Ponceau 2 R	By		
A264	Double Ponceau 4 R	By		
A265	FAST PONCEAU L (Kal. 1912)	By	300	
A266	HELIO BORDEAUX BL paste (Kal. 1912)	By	14,703	
A267	HELIO FAST BLUE BL conc. (Kal. 1914)	By	1,497	
A268	HELIO FAST RUBERINE RL	By	51	
A269	HELIO FAST VIOLET AL (Kal. 1907)	By	600	
A270	HELIO FAST YELLOW 8 GL paste	By	11	
	HELIO RED		3,245	540
A271	Helio Red RM 27283 (S.) (for lakes)—1904	By		
A272	Helio Red RMT paste 27561	By		
A272	Helio Red RMT 27445	By		
A273	IMPERIAL GREEN GI	By	683	
A274	METANIL RED 3 B extra (S.; S. H. IV, 1405)—1902	By	99	
A275	MILLING ORANGE G (S.)	By	1,997	
A276	NAPHTHYLAMINE GREEN T conc. 27954 (Kal. 1913)	By	602	
A277	ORANGE RO (S.; S. H. IV, 2413)—1904	By	24,283	
A278	PARA BLACK B extra conc. (S.; Kal. 1912)—1910	By	2,247	
	PARA BROWN		998	241
A279	Para Brown GK (S.; Kal. 1911; R. 64)	By		
A280	Para Brown RK (S.; Kal. 1911; R. 64)	By		
A281	Para Brown SC (S.; R. 64)—1909	By		
A282	PARA BRILLIANT ORANGE G	By	99	
A283	PARA GREEN 2 BL (S.; Kal. 1910)	By	800	
A284	PARA ORANGE G (S.; Kal. 1910, 1911)	By	1,596	
A285	PHENYLAMINE BLACK 4 B (S.; S. H. IV, 1445)—1899	By	14,066	
	PLUTO BLACK		30,010	6,026
A286	Pluto Black A extra (S.; S. H. IV, 1869)—1902	By		
A287	Pluto Black BS extra (S.; S. H. IV, 1865)—1899	By		
A288	Pluto Black CF extra (S.; S. H. IV, 1872)—1903	By		
A288	Pluto Black CF extra conc	By		
A289	Pluto Black F extra (S.; S. H. IV, 1868)—1901	By		
A289	Pluto Black F extra conc	By		
A290	Pluto Black G 28241 (S.; S. H. IV, 1863)—1897	By		
A291	Pluto Black SS extra (S.; Kal. 1905)—1903	By		

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	PLUTO BROWN		14,530	$2,542
A292	Pluto Brown GG (S.; S. H. IV, 1771; a mixture) 1899	By		
A293	Pluto Brown NB (S.; S. H. IV, 1771; a mixture) 1899	By		
A294	Pluto Brown R (S.; S. H. IV, 1769) 1898	By		
A295	PLUTO MILLING BLACK B (Kal. 1909) 1907	By	1,230	
A296	PLUTOFORM BLACK 3 GL (S.; Kal. 1912, 1913)	By	51	
	SULPHON ORANGE		765	205
A297	Sulphon Orange G (S.; Kal. 1907)	By		
A297	Sulphon Orange 5 G (Kal. 1914)	By		
A298	SULPHON VIOLET R extra (S.; Kal. 1914)	By	452	
	SULPHON YELLOW		7,080	3,196
A299	Sulphon Yellow 5 G 1904	By		
A299	Sulphon R (S.) 1904	By		
A300	Sulphon Yellow R conc. (S. 1904) (for lake)	By		
	WOOL BLACK		4,765	962
A301	Wool Black N 4 B (S.; S. H. IV, 1444) 1898	By		
A302	Wool Black NP	By		
	ALPHANOL BLACK		30,189	3,196
A303	Alphanol Black 44 B (S.; R. 55). (Current marks, B, G, R.)	C		
A303	Alphanol Black 36 G 1461 (S.; Kal. 1909)	C		
A303	Alphanol Black 33 L 390	C		
A303	Alphanol Black 44 R 1671 (S.; Kal. 1909)	C		
A303	Alphanol Black 33 Y 1403	C		
	ALPHANOL BLUE		5,996	1,055
A308	Alphanol Blue 37 F 1485. (Current marks, B, R G, N, 5 RN.)	C		
A309	Alphanol Blue 23 S	C		
A309	Alphanol Blue 33 S 1397	C		
A310	Alphanol Blue 38 W 1526	C		
A311	ANTHRACENE ACID BLUE 38 M 1516. (Current marks, 2 B, 3 B, BBN, GG, RR.)	C	4,963	
A312	ANTHRACENE BLACK FF	C	15	
	ANTHRACENE CHROME BLUE		5,027	2,071
A313	Anthracene Chrome Blue 28 D 1258 (S. H. IV, 2431). (Current marks, B, BB, BW, F, FR, G, H, R, RRW, T, TB.)	C		
A313	Anthracene Chrome Blue 32 D 1358	C		
A313	Anthracene Chrome Blue 69 E 2293	C		
A313	Anthracene Chrome Blue 20 G 1061	C		
A313	Anthracene Chrome Blue 29 L 1290	C		
A313	Anthracene Chrome Blue 16 X 977	C		
	ANTHRACENE CHROMATE BROWN		9,543	2,735
A318	Anthracene Chromate Brown 67 A 2239 (S.; Kal. 1914). (Current marks, BG, EB, 3 G, LR.)	C		
A318	Anthracene Chromate Brown 29 D 1283	C		
A318	Anthracene Chromate Brown 30 T 1323	C		
A318	Anthracene Chromate Brown 69 Y 2312	C		
A322	ANTHRACENE CHROMATE YELLOW 54 W 1926. (Current marks, F, V, M.)	C	2,996	
	ANTHRACENE CHROME BROWN		1,543	378
A323	Anthracene Chrome Brown 13 S 897 (S.; S. H. IV, 1489). (Current marks, A, D, DWN, SWN.)	C		
A323	Anthracene Chrome Brown 31 T 1348	C		
A325	ANTHRACENE CHROME GREEN	C	400	
	ANTHRACENE CHROME RED		1,708	486
A326	Anthracene Chrome Red 56 D 1958 (S. H. IV, 1478). (Current mark, R.)	C		
A326	Anthracene Chrome Red 56 E 1959	C		
A326	Anthracene Chrome Red 68 M 2275	C		
	AZO FAST BLUE		7,994	2,369
A329	Azo Fast Blue 50 M 1816 (S. 1912)	C		
A330	Azo Fast Blue 50 N 1817	C		
A331	Azo Fast Blue 49 S 1797	C		
A332	AZO FAST VIOLET 68 O 2277 (Kal. 1912)	C	7,996	
A333	AZO MERINO BLACK 50 Q 1820 (S.; S. H. IV, 1433). (Current marks, B, 6 B, 8 B, BE, 6 BE, BN, 3 BN, 6 BN.)	C	8,501	

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
A334	AZO ORSEILLE 2 B	C	3,096	
A335	AZO WOOL BLACK 18 Q 1020. (Current marks, B, 4 B, G.)	C	1,198	
	AZO WOOL VIOLET		12,944	$3,296
A336	Azo Wool Violet 15 H 937 (S.; S. H. IV, 1427-1428). (Current marks, 4 B, 7 R.)	C		
A336	Azo Wool Violet 51 H 1837	C		
A336	Azo Wool Violet 15 R 946	C		
A338	DIAMINE ALDEHYDE BLUE 67 V 2259 (Kal. 1914)	C	231	
A339	DIAMINE ALDEHYDE SCARLET 68 D 2267	C	300	
A340	DIAMINE AZO BLUE 4 Y 485 (S.; S. H. IV, 1683-1686). (Current marks, 6 B, R, RR, 51, 54.)—1895	C	3,497	
	DIAMINE AZO BORDEAUX		1,323	248
A341	Diamine Azo Bordeaux B conc	C		
A341	Diamine Azo Bordeaux B	C		
	DIAMINE AZO SCARLET		6,646	1,992
A342	Diamine Azo Scarlet 58 P 2022 (S.; Kal. 1914; R. 63). (Current marks, A, B, 4 B, 8 B, 4 BL, 6 BL, 8 BS.)	C		
A342	Diamine Azo Scarlet 58 Q 2023	C		
A342	Diamine Azo Scarlet 58 R 2024	C		
A342	Diamine Azo Scarlet 65 W 2210	C		
A342	Diamine Azo Scarlet 65 X 2211	C		
A342	Diamine Azo Scarlet 65 Y 2212	C		
A343	DIAMINE BRILLIANT RUBINE 56 Y 1979 (S.; Kal. 1910)	C	1,801	
A344	DIAMINE BRILLIANT SCARLET 58 K 2017 (S.; S. H. IV, 1593). (Current mark, S.)—1901	C	5,409	
A345	DIAMINE BRILLIANT VIOLET 35 E 1434 (S.; Kal. 1909). (Current mark, 2 R.)	C	1,739	
	DIAMINE CATECHINE		66,876	14,942
A346	Diamine Catechine 10 E 889 (S.; S. H. IV, 1785-1787). (Current marks, B, BZ, G, 3 G.)	C		
A346	Diamine Catechine FF 445	C		
A346	Diamine Catechine GG 446	C		
A346	Diamine Catechine 33 T 1398	C		
A347	DIAMINE DARK BLUE B (S.; S. H. IV, 1676)—1898	C	9,691	
A348	DIAMINE DARK GREEN N	C	5,194	
	DIAMINE FAST BLACK		7,999	1,233
A349	Diamine Fast Black 32 A 1355 (S.; Kal. 1914; S. H. IV, 1913). (Current marks, C, CB, F, GV, N, X.)	C		
A349	Diamine Fast Black 66 M 2225	C		
A349	Diamine Fast Black 19 U 1049	C		
	DIAMINE FAST BLUE		28,880	7,227
A351	Diamine Fast Blue 16 D 958 (S.; Kal. 1905; S. H. IV, 1677-1680). (Current marks, BN, C, CG, FFB, FFG, G.)—1901	C		
A351	Diamine Fast Blue 17 G 986	C		
A351	Diamine Fast Blue 51 Y 1853	C		
A352	DIAMINE FAST BORDEAUX 61 Y 2108 (S.; Kal. 1912). (Current mark, 6 BS.)	C	999	
	DIAMINE FAST BROWN		6,922	2,071
A353	Diamine Fast Brown 34 E 1409 (S.; Kal. 1909). (Current marks, G, GB, R.)	C		
A353	Diamine Fast Brown 69 H	C		
A353	Diamine Fast Brown 32 Y 1378	C		
A353	Diamine Fast Brown 32 Z 1379	C		
A354	DIAMINE FAST GRAY 34 G 1411 (S.; Kal. 1909). (Current marks, BN, RN.)	C	1,199	
	DIAMINE FAST ORANGE		17,387	4,811
A355	Diamine Fast Orange 2 A 605 (S.). (Current marks, EG, ER.)	C		
A355	Diamine Fast Orange 36 S 1472	C		
A355	Diamine Fast Orange 36 T 1473	C		

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	DIAMINE FAST SCARLET		9,632	$3,046
A357	Diamine Fast Scarlet 59 C 2035 (S.; Kal. 1908, 1909, 1911). (Current marks, BB, 4 B, 8 B, GB, GG, GS, 4 BN, 6 BS, 8 BN, GFF, 4 BFS, 4 BFF, 5 BFF, 7 BFF, 8 BF, 10 BF.)	C		
A357	Diamine Fast Scarlet 59 D 2036	C		
A357	Diamine Fast Scarlet 67 O 2252	C		
A357	Diamine Fast Scarlet 65 P 2203	C		
A357	Diamine Fast Scarlet 65 R 2205	C		
A357	Diamine Fast Scarlet 65 T 2207	C		
A357	Diamine Fast Scarlet 58 V 2028	C		
A357	Diamine Fast Scarlet 58 V 2031	C		
A357	Diamine Fast Scarlet 58 W 2029	C		
A357	Diamine Fast Scarlet 69 W 2310	C		
A357	Diamine Fast Scarlet 58 X 2030	C		
	DIAMINE FAST VIOLET		2,397	885
A358	Diamine Fast Violet 43 B 1631 (S.; Kal. 1910, 1912). (Current marks, BBN, FFBN, FFR, FFRN.)	C		
A358	Diamine Fast Violet 43 C 1632	C		
A359	DIAMINE GRAY G (S.; S. H. IV, 1823)....1895	C	2,200	
	DIAMINE HELIOTROPE		4,721	761
A360	Diamine Heliotrope 11 F 835 (S.; S. H. IV, 1736). (Current marks, B, G, O.)....1901	C		
A360	Diamine Heliotrope 11 G 836	C		
A360	Diamine Heliotrope 10 U 824	C		
	DIAMINE JET BLACK		14,091	4,815
A361	Diamine Jet Black 3 B, 523 (S.; Kal. 1914; S. H. IV, 1895, 1900). (Current marks, BB, CR, 4 D, GG, JEI, OO, OOOO, RB, SE, SOOO, SS.)	C		
A361	Diamine Jet Black GG 503	C		
A361	Diamine Jet Black 30 L 1315	C		
A361	Diamine Jet Black NN 509	C		
	DIAMINE NERON		36,982	6,204
A362	Diamine Neron 53 Z 1904 (S.; Kal. 1912). (Current mark, BB.)	C		
A362	Diamine Neron 54 V 1925	C		
A363	DIAMINE NEW BLUE 4 F 467 (S.; S. H. IV, 1667–1669). (Current marks, G, P, R.)....1895	C	50	
A364	DIAMINE NITRAZOL BROWN G (S.; S. H. IV, 1791; R. 64)....1898	C	99	
A365	DIAMINE NITRAZOL GREEN 49 D 1783 (S.; Kal. 1909, 1910, 1912; R. 64). (Current marks, BB, G, GF, S, KB, KG.)	C	1,601	
A366	DIAMINE NITRAZOL ORANGE 48 A 1755. (Current mark, R.)	C	201	
	DIAMINE ORANGE		17,068	2,851
A367	Diamine Orange HH 416 (S.; S. H. IV, 1545–1549). (Current marks, B, D, DC, F, G, GC, R.)	C		
A367	Diamine Orange PP 423	C		
A367	Diamine Orange 5 T	C		
A367	Diamine Orange 5 T 698	C		
A367	Diamine Orange 52 U 1874	C		
	DIAMINE SKY BLUE		41,115	
A368	Diamine Sky Blue 3 C 409. (Current mark, FF.)	C		
A368	Diamine Sky Blue 4 G 468	C		
A368	Diamine Sky Blue 37 P 1494	C		
A369	DIAMINE VIOLET RED B (S.; S. H. IV, 1592)	C	699	
	DIAMINE YELLOW		6,197	2,144
A370	Diamine Yellow AA 194 (S.; S. H. IV, 1525). (Current marks, CP, CPO, CPI, CPII, N, R.)	C		
A370	Diamine Yellow 15 T 948	C		
	DIAMINERAL BLUE		4,975	1,104
A371	Diamineral Blue 6 B 513 (S.; Kal. 1908, 1909, 1911). (Current marks, B, CV, CVB, R, 3 RC.)	C		
A371	Diamineral Blue 21 F 1085	C		
A371	Diamineral Blue 36 V 1475	C		
A372	DIAMINERAL BROWN G (S.; S. H. IV, 1790)	C	999	

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	DIAMINOGEN SKY BLUE		2,195	$1,017
A373	Diaminogen Sky Blue N conc	C		
A373	Diaminogen Sky Blue N	C		
A374	ERYTHRINE C	C	300	
	EXCELSIOR LAKE SCARLET		2,502	227
A375	Excelsior Lake Scarlet 59 E 2037 (S.; S. H. IV, 2464). (Current marks, JN, JJN.)	C		
A375	Excelsior Lake Scarlet 59 F 2038	C		
	HAT BLACK		8,894	1,151
A376	Hat Black 11 M 841 (S.; Kal. 1905, 1907; S. H. IV, 2424). (Current marks, BB, 2 BV, 3 BV, 5 BV, FF, HF, HT, J.)	C		
A376	Hat Black 29 Z 1304	C		
A377	LAKE SCARLET 59 L 2044. (Current marks, G, GG, R.)	C	3,499	
	MILLING YELLOW		3,601	929
A378	Milling Yellow X 191 (Kal. 1914). (Current marks, II, O, OO.)	C		
A378	Milling Yellow 66 Y 2237	C		
A379	NAPHTHOL BLUE 3 Y 460 (S. H. IV, 1418). (Current marks, G, R.)	C	2,200	
A380	NAPHTHYLAMINE BLUE BLACK 28 S 1272 (S.). (Current marks, B, 5 B.)	C	999	
A381	NAVY BLUE 53 T 1898	C	201	
	OXY DIAMINE BLACK		146,629	24,836
A382	Oxy Diamine Black 4 C 657 (S.; S. H. IV, 1902, 1907). (Current marks, A, AFF, AM, AT, B, BG, BM, BZ, BZS, CBS, D, FFC, FFG, JB, JE, JEI, JWF, JWG, N, NF, NR, NRT, R, RR, SA, SAFU, SOOO, SOOOO, VI, US.)	C		
A382	Oxy Diamine Black 32 H 1362	C		
A382	Oxy Diamine Black HH 504	C		
A382	Oxy Diamine Black 69 M 2300	C		
A382	Oxy Diamine Black MM 508	C		
A382	Oxy Diamine Black 18 P 1019	C		
A382	Oxy Diamine Black 4 S 564	C		
A382	Oxy Diamine Black 7 S 747	C		
A382	Oxy Diamine Black 48 S 1772	C		
A382	Oxy Diamine Black 4 V 567	C		
A382	Oxy Diamine Black 7 V 750	C		
A382	Oxy Diamine Black 14 Z 929	C		
	OXY DIAMINE BLUE		6,309	1,239
A383	Oxy Diamine Blue 6 G 711 (S.; S. H. IV, 1673). (Current marks, B, 5 B, G, 3 G, 5 G, R, 3 R.)	C		
A383	Oxy Diamine Blue 7 JS 738	C		
A383	Oxy Diamine Blue 66 L 2224	C		
A383	Oxy Diamine Blue 66 N 2226	C		
A383	Oxy Diamine Blue 50 W 1826	C		
A383	Oxy Diamine Blue 20 Z 1079	C		
	OXY DIAMINE BROWN		23,498	3,810
A384	Oxy Diamine Brown 21 A 1080 (S.; S. H. IV, 1789). (Current marks, G, 3 GN, RM, RN, RO.)	C		
A384	Oxy Diamine Brown 8 B 756	C		
A384	Oxy Diamine Brown 19 Y 1053	C		
A384	Oxy Diamine Brown 26 U 1224	C		
	OXY DIAMINE CARBON		34,388	7,864
A385	Oxy Diamine Carbon 32 S 1372. (Current marks, JB, JE, JEI.)	C		
A385	Oxy Diamine Carbon 32 T 1373	C		
A386	OXY DIAMINE RED S (S.; S. H. IV, 1591)	C	602	
	OXY DIAMINOGEN		139,118	26,832
A387	Oxy Diaminogen 13 A 880 (S.; S. H. IV, 1917). (Current marks, ED, EF, EM, FF, H, FFG, FFN, OB, OBB, OT.)	C		
A387	Oxy Diaminogen 13 B 881	C		
A387	Oxy Diaminogen 13 C 882	C		
A387	Oxy Diaminogen 13 C	C		
A387	Oxy Diaminogen 69 G 2295	C		
A387	Oxy Diaminogen 28 J 1263	C		
A387	Oxy Diaminogen 19 R 1046	C		
A387	Oxy Diaminogen 38 S 1522	C		
A387	Oxy Diaminogen 25 X 1202	C		

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation. Pounds.	Value.
	PARA DIAMINE BLACK		18,634	$2,690
A388	Para Diamine Black, 31 E 1334 (S.; S. H. IV, 1912). (Current marks, B, BB, FFB, OAKH.)	C		
A388	Para Diamine Black 54 G 1911	C		
A388	Para Diamine Black 47 L 1740	C		
	AZO CERISE		3,379	674
A389	Azo Cerise M	K		
A389	Azo Cerise 1618	K		
	AZO INDIGINE		661	555
A390	Azo Indigine 419	K		
A390	Azo Indigine 420	K		
A391	AZO WOOL VIOLET 415	K	220	
A392	BIEBRICH ACID VIOLET R (S.; S. H. IV, 1423). (Current marks, 2 B, 6 B.) 1898	K	4,982	
	CHROME YELLOW		5,128	1,292
A393	Chrome Yellow SM (S.; S. H. IV, 1462) 1899	K		
A393	Chrome Yellow 2501	K		
	CLOTH RED		2,582	488
A394	Cloth Red BB (Kal. 1910). (Current mark, B.)	K		
A394	Cloth Red 1769	K		
A394	Cloth Red 2586	K		
	CONGO MAGENTA		4,346	634
A395	Congo Magenta	K		
A395	Congo Magenta 3616	K		
	COTTON BLACK		300,473	44,567
A396	Cotton Black A	K		
A396	Cotton Black CK	K		
A396	Cotton Black GB	K		
A396	Cotton Black UG	K		
A396	Cotton Black 392 (reddish)	K		
A396	Cotton Black 393 (greenish)	K		
A396	Cotton Black 393 (reddish)	K		
A396	Cotton Black 461 (reddish)	K		
A396	Cotton Black 3893	K		
A396	Cotton Black 3929	K		
A396	Cotton Black 3933	K		
A396	Cotton Black 3933 extra	K		
	DIAZOGENE BLUE		3,391	1,393
A397	Diazogene Blue 2 R extra	K		
A397	Diazogene Blue 4585	K		
	DIRECT VIOLET		892	224
A398	Direct Violet 3653 (S.)	K		
A398	Direct Violet 4561	K		
	NAPHTHAMINE DIRECT BLUE		7,191	1,512
A399	Naphthamine Direct Blue BXR	K		
A399	Naphthamine Direct Blue ER	K		
A399	Naphthamine Direct Blue 2 R	K		
A399	Naphthamine Direct Blue 3 R	K		
A399	Naphthamine Direct Blue 3692	K		
A400	NAPHTHAMINE DIRECT GREEN AG	K	4,685	
	NAPHTHAMINE GREEN		5,632	1,275
A401	Naphthamine Green (S.; S. H. IV, 1623). (Current marks, A, AG, AN, B, BE, GE, TE.)	K		
A401	Naphthamine Green 3782	K		
A401	Naphthamine Green 3784	K		
A401	Naphthamine Green 4611	K		
	NAPHTHAMINE ORANGE		7,607	1,958
A402	Naphthamine Orange 1925 (S.; Kal. 1914; S. H. IV, 1553). (Current marks, G, NG, R, 2 R, TG, TR.)	K		
A402	Naphthamine Orange 3552	K		
A402	Naphthamine Orange 3555	K		
A403	SALICINE BLUE B (S.; Kal. 1907; R. 68)	K	16,294	
A404	SALICINE BORDEAUX R (S.; Kal. 1913)	K	459	

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	SALICINE BROWN		1,473	$429
A405	Salicine Brown 2893 (S.; Kal. 1905, 1908; R. 69). (Current marks, BN, R, RC.)	K		
A405	Salicine Brown 2812	K		
A406	SALICINE DARK GREEN CS (S.)	K	5,458	
A407	SALICINE GREEN CP	K	309	
	SALICINE ORANGE		1,413	274
A408	Salicine Orange 2 R (S.; Kal. 1910; R. 67)	K		
A409	Salicine Orange 2542	K		
A409	Salicine Orange 2541 (S.; Kal. 1910; R. 67). (Current marks, D, GR.) 1908	K		
	SALICINE RED		2,762	536
A410	Salicine Red B (S.; S. H. IV, 1481) 1898	K		
A411	Salicine Red G (S.; S. H. IV, 1481) 1898	K		
A412	SALICINE VIOLET R (S.; Kal. 1913)	K	1,257	
	UNION RED		2,863	618
A412a	Union Red B	K		
A412b	Union Red BS	K		
A413	AMIDO AZO BLACK T (S.; Kal. 1912)	M	1,500	
	AMIDO NAPHTHOL BLACK		10,750	1,219
A414	Amido Naphthol Black 4 B extra (S.)	M		
A415	Amido Naphthol Black RK	M		
A416	AMIDO RED BL	M	135	
A417	AMIDO YELLOW E (S.; Kal. 1914)	M	250	
	AZO ACID BLACK		19,500	3,042
A418	Azo Acid Black B 15 per cent red. (S.; S. H. IV, 1455)	M		
A419	Azo Acid Black 3 BL extra	M		
A419	Azo Acid Black 3 BL extra 15 per cent red	M		
A420	Azo Acid Black R	M		
A421	Azo Acid Black TL II new	M		
A422	AZO BLACK O	M	300	
A423	AZO ORANGE RUBINE	M	254	
A424	BRILLIANT SCARLET AL	M	1,000	
A425	CHROME BLACK DF extra	M	2,761	
A426	CUTCH BROWN D (S.)	M	750	
A427	DIANIL CRIMSON B	M	500	
	DIAZANIL SCARLET		4,125	1,411
A428	Diazanil Scarlet B (S.; Kal. 1910)	M		
A429	Diazanil Scarlet 6 B (S.; Kal. 1910)	M		
	FAST MORDANT BLUE		17,000	4,612
A430	Fast Mordant Blue B (S.; Kal. 1907; R. 68)	M		
A431	Fast Mordant Blue R (S.; Kal. 1910; R. 68)	M		
A435	LAKE SCARLET RED D	M	2,357	
A436	MILLING BLUE 2 R extra (S. 1904)	M	1,000	
	NAPHTHALENE BLUE		28,000	5,102
A437	Naphthalene Blue B (S. 1899)	M		
A438	Naphthalene Blue DL (S. 1899)	M		
	VICTORIA SCARLET		22,400	2,379
A439	Victoria Scarlet R	M		
A440	Victoria Scarlet 3 R (S. 1898)	M		
A441	WOOL BLACK N	M	2,500	
A442	BENZO BRILLIANT BLUE 2 GDN	BK	441	

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
A443	BRILLIANT SCARLET R (S.)	BK	441	
	DIRECT GREEN		31,194	$5,091
A444	Direct Green B	CG		
A445	Direct Green C	CG		
A446	Direct Green G	CG		
A447	Direct Green FGD	CG		
A448	Direct Green 10865	CG		
	DIRECT VIOLET		5,080	841
A449	Direct Violet R	CG		
A450	Direct Violet 11508	CG		
	HELIGOLAND BLACK		25,132	4,151
A451	Heligoland Black FFN extra conc. A	CG		
A451	Heligoland Black FFN extra A	CG		
	HELIGOLAND BLUE		3,049	1,109
A452	Heligoland Blue 6 B (Hurst, Dict. of Coal-Tar Colors, 121).1894	CG		
A453	Heligoland Blue RW 200 per cent (Hurst, Dict. of Coal-Tar Colors, 121)	CG		
A454	AZIDINE DARK BROWN (S.; Kal. 1909)	CJ	220	
A455	AZIDINE FAST ORANGE ES (Kal. 1914)	CJ	220	
A456	AZIDINE FAST SCARLET E 4 BS (Kal. 1914)	CJ	772	
A457	AZO MILLING YELLOW 5 G (S.; Kal. 1914)	GrE	201	
A458	CLOTH YELLOW R (S.; Kal. 1909; R. 67)	GrE	1,497	
	DIRECT YELLOW		3,194	504
A459	Direct Yellow EGOO	GrE		
A460	Direct Yellow GOO (Kal. 1911)	GrE		
A461	Direct Yellow R (S.)	GrE		
	HYDRAZINE YELLOW		1,197	297
A462	Hydrazine Yellow OO (S.; Kal. 1912; S. H. IV, 817; R. 53).1884	GrE		
A463	Hydrazine Yellow SO (S.; Kal. 1912; S. H. IV, 817; R. 53)	GrE		
	NEW TOLUYLENE BROWN		5,692	1,062
A464	New Toluylene Brown O (S.; S. H. IV, 1815)	GrE		
A465	New Toluylene Brown OO (S.; S. H. IV, 1815)	GrE		
A466	New Toluylene Brown R (S.; S. H. IV, 1815)	GrE		
A467	OXYCHROME BLACK F (Kal. 1909)	GrE	3,395	
A468	OXYCHROME BLUE BLACK BGO (Kal. 1912)	GrE	106	
	OXYCHROME BROWN		10,490	2,235
A469	Oxychrome Brown V (S.; Kal. 1909)	GrE		
A470	Oxychrome Brown VA (S.; Kal. 1900)	GrE		
A471	Oxychrome Brown VN (S.; Kal. 1910, 1912)	GrE		
	OXYCHROME YELLOW		10,085	1,985
A472	Oxychrome Yellow D (Kal. 1914)	GrE		
A473	Oxychrome Yellow DG	GrE		
A474	Oxychrome Yellow 2 G	GrE		
	SCARLET		897	233
A475	Scarlet AB	GrE		
A476	Scarlet 6 B	GrE		
A477	TOLUYLENE BLACK GOO (S.; S. H. IV, 1935)	GrE	1,100	202
	TRIAZOL BLUE		10,148	1,580
A478	Triazol Blue B (S.; S. H. IV, 1717–1724)	GrE		
A479	Triazol Blue BOO (S.; S. H. IV, 1717–1724)	GrE		
A480	Triazol Blue BBOO (S.; S. H. IV, 1717–1724)	GrE		
A481	Triazol Blue 4 BOO (S.; Kal. 1907, 1908, 1913)	GrE		
A482	Triazol Blue R (S.; S. H. IV, 1717–1724)	GrE		
A483	Triazol Blue 3242	GrE		
A484	TRIAZOL BORDEAUX B (S.; Kal. 1907)	GrE	300	

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	TRIAZOL BROWN		17,087	$2,854
A485	Triazol Brown GOOA (S.) 1903	GrE		
A486	Triazol Brown GOOO (S.; Kal. 1911; S. H. IV, 1818)	GrE		
A487	Triazol Brown HRO	GrE		
A488	Triazol Brown SOOO (S.; Kal. 1911; S. H. IV, 1818)	GrE		
	TRIAZOL DARK BLUE		19,489	3,647
A489	Triazol Dark Blue BOO (S.; S. H. IV, 1721)	GrE		
A490	Triazol Dark Blue BHOOO (Kal. 1911; a polyazo compound)	GrE		
A491	Triazol Dark Blue BHPOOOO (Kal. 1911)	GrE		
A492	Triazol Dark Blue BHTOOO (Kal. 1911)	GrE		
A493	Triazol Dark Blue 3 G (S.)	GrE		
A494	Triazol Dark Blue ROO (S.; S. H. IV, 1721)	GrE		
	TRIAZOL GREEN		2,293	335
A495	Triazol Green BPOO (S.; Kal. 1911, 1914; a polyazo compound)	GrE		
A496	Triazol Green GPOO (S.; Kal. 1914)	GrE		
	TRIAZOL PURE BLUE		1,497	321
A497	Triazol Pure Blue 3 B (S.; Kal. 1908, 1914)	GrE		
A498	Triazol Pure Blue R (S.; Kal. 1908)	GrE		
	TRIAZOL VIOLET		7,760	1,739
A499	Triazol Violet R (S.; Kal. 1907, 1908)	GrE		
A500	Triazol Violet RR (S.; Kal. 1907, 1908)	GrE		
A501	ANTHRACHROME RED A (S.; Ksl. 1910)	L	220	
	DIRECT BROWN		1,329	330
A502	Direct Brown extra	L		
A503	Direct Brown G	L		
A504	Direct Brown HB	L		
A505	Direct Brown N (S.; S. H. IV, 1811) 1903	L		
A506	DIRECT ORANGE 6 R extra	L	551	
	DOMINGO ALIZARIN BLACK		3,883	1,877
A507	Domingo Alizarin Black EF	L		
A508	Domingo Alizarin Black G (S.; Kal. 1905; S. H. IV, 2437). 1903	L		
	DOMINGO ALIZARIN BLUE		3,968	1,859
A509	Domingo Alizarin Blue R extra (S.; Kal. 1905)	L		
A509	Domingo Alizarin Blue R extra 81397	L		
A509a	DOMINGO ALIZARIN BORDEAUX (S.; Kal. 1905)	L	110	
A510	DOMINGO BLACK 46216 extra (S. 1905)	L	2,755	
A511	PEGU BROWN G (S.; S. H. IV, 1810; S. J., 2d ed., 960) 1896	L	110	
	ACIDOL AZO VIOLET		1,658	894
A512	Acidol Azo Violet R (Kal. 1913)	tM		
A513	Acidol Azo Violet S	tM		
A514	ACIDOL FAST VIOLET A 2 R	tM	661	
	BRILLIANT SCARLET		12,565	1,425
A515	Brilliant Scarlet 2 R (S.)	tM		
A516	Brilliant Scarlet 4 RSP	tM		
A516	Brilliant Scarlet 4 R extra conc	tM		
A517	RENOL BORDEAUX (S.)	tM	1,874	
A518	RENOL DARK GREEN NOONG (Kal. 1908)	tM	547	
A519	RENOL FAST RED 4 B	tM	1,190	
	RENOL LIGHT BLUE		3,527	1,500
A520	Renol Light Blue A double conc	tM		
A521	Renol Light Blue G extra conc	tM		
A522	RENOL RED extra	tM	498	
A523	SITARA ORANGE I paste (insoluble; for pigments)	tM	20	
	ANTHRACYL CHROME BLUE		24,979	6,235
A524	Anthracyl Chrome Blue 2 B (Kal. 1907)	tM		
A525	Anthracyl Chrome Blue D (Kal. 1907)	tM		

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
A526	BENZO AZO RED B (Kal. 1914)	WD	201	
	CROCEINE SCARLET		12,210	$2,235
A527	Croceine Scarlet MO conc	WD		
A528	Croceine Scarlet MOO	WD		
A529	DIAZO BRILLIANT SCARLET PR extra	WD	55	
A530	NAPHTHYLAMINE SKY BLUE DD 300 per cent	NF	2,756	
A531	ACID BLUE BLACK (S.; S. H. IV, 1440)	AW	15,001	
A532	ACID CHROME BLUE (reddish) (S.)	AW	12,952	
A533	ACID FAST GREEN 8 B extra	AW	14,050	
A534	ACID NAVY BLUE SL	AW	2,040	
A535	ACID SKY BLUE	AW	606	
A536	ACID RED S	AW	606	
	AZO INDIGINE		3,435	2,665
A537	Azo Indigine 6 B double	AW		
A538	Azo Indigine S	AW		
A539	BRILLIANT FAST BLUE	AW	1,339	
A540	CUTCH BROWN extra strong	AW	606	
	DIAZOGENE BLACK		20,042	6,813
A541	Diazogene Black (Kal. 1913)	AW		
A542	Diazogene Black AB	AW		
A543	Diazogene Black AD	AW		
A544	Diazogene Black B extra	AW		
A545	Diazogene Black N	AW		
	DIAZOGENE BLUE		1,329	706
A546	Diazogene Blue R 75 : 100 (Kal. 1913)	AW		
A547	Diazogene Blue RD (Kal. 1913)	AW		
A548	DIAZOGENE GARNET BB	AW	110	
A549	DIAZOGENE RED 8 B extra conc. (Kal. 1910)	AW	110	
	DIRECT BLACK		15,945	2,804
A550	Direct Black ABC	AW		
A551	Direct Black C	AW		
A552	DIRECT CHROME BROWN	AW	12,178	
A553	DIRECT FAST BLUE	AW	2,299	
A554	DRAZALINE ALIZARIN red	AW	110	
A555	DRAZALINE BLACK BH extra strong	AW	1,217	
	DRAZALINE BLUE		10,831	4,425
A556	Drazaline Blue 10 B	AW		
A557	Drazaline Blue 2 BFL	AW		
A558	Drazaline Blue CV extra conc	AW		
A559	Drazaline Blue F	AW		
A560	Drazaline Blue FS	AW		
A561	Drazaline Blue Black HWF	AW		
A562	Drazaline Blue RFL	AW		
A563	Drazaline Blue VVV	AW		
A564	DRAZALINE BORDEAUX 6 B	AW	796	
A565	DRAZALINE BRILLIANT YELLOW extra	AW	2,216	
	DRAZALINE BROWN		21,756	4,979
A566	Drazaline Brown C 3 B	AW		
A567	Drazaline Brown FL	AW		
A568	Drazaline Brown G	AW		
A569	Drazaline Brown 3 GL	AW		
A570	Drazaline Brown 4 J	AW		
A571	Drazaline Brown R	AW		
A572	DRAZALINE CHLORINE YELLOW G	AW	55	

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
A573	DRAZALINE DIAMOND VIOLET BB	AW	608	
A574	DRAZALINE FAST BLUE 4 GFL	AW	606	
A575	DRAZALINE FAST GRAY	AW	4,868	
	DRAZALINE FAST RED		2,432	$724
A576	Drazaline Fast Red	AW		
A577	Drazaline Fast Red F	AW		
A578	DRAZALINE FAST YELLOW B double	AW	2,172	
	DRAZALINE GARNET		829	279
A579	Drazaline Garnet BB extra	AW		
A580	Drazaline Garnet FL	AW		
A581	DRAZALINE GREEN BX	AW	220	
A582	DRAZALINE INDIGO BLUE	AW	220	
	DRAZALINE NEW RED		6,741	2,841
A583	Drazaline New Red	AW		
A584	Drazaline New Red 10 B	AW		
	DRAZALINE ORANGE		3,090	1,242
A585	Drazaline Orange FL	AW		
A586	Drazaline Orange G extra conc	AW		
A587	Drazaline Orange R extra conc	AW		
	DRAZALINE RED		1,711	652
A589	Drazaline Red F	AW		
A590	Drazaline Red FL	AW		
A591	Drazaline Red FV	AW		
A592	DRAZALINE SCARLET B	AW	608	
	DRAZALINE SKY BLUE		10,940	5,204
A593	Drazaline Sky Blue FF extra	AW		
A593	Drazaline Sky Blue FF extra conc	AW		
A593	Drazaline Sky Blue FF extra strong	AW		
A593	Drazaline Sky Blue FF pure	AW		
	DRAZALINE VIOLET		3,174	1,075
A594	Drazaline Violet D	AW		
A595	Drazaline Violet NFL	AW		
A596	Drazaline Violet VB	AW		
	DRAZALINE YELLOW		4,692	1,695
A597	Drazaline Yellow R extra strong	AW		
A597	Drazaline Yellow R	AW		
A598	Drazaline Yellow S	AW		
A599	Drazaline Yellow T	AW		
A600	EXCELSIOR BLACK	AW	52,956	
A601	FAST STRAW YELLOW V	AW	1,824	
A602	FAST VIOLET R extra	AW	611	
	HYDRAZOL BLACK		10,961	1,629
A603	Hydrazol Black	AW		
A604	Hydrazol Black R conc	AW		
	HYDRAZOL CHROME BLACK		51,694	7,498
A605	Hydrazol Chrome Black CB	AW		
A606	Hydrazol Chrome Black DB	AW		
A607	NEW ACID CHROME BLACK R	AW	608	
A608	NEW FAST STRAW YELLOW	AW	1,823	
A610	ACID CHROME BLACK RH	G	518	
A611	BENZO FAST BLACK	G	331	
A612	CHICAGO RED 111 (S. 1906; S. H. IV, 1594)	G	13,195	
A613	DIAZOPHENYL BLACK L conc. (Kal. 1914)	G	441	
A614	DIAZOPHENYL BLUE BC	G	1,477	

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	DIPHENYL BLACK		860	$396
A615	Diphenyl Black L conc	G		
A616	Diphenyl Black RC (S. H. IV, 1920)	G		
	DIPHENYL BLUE		12,677	3,842
A617	Diphenyl Blue 3 BC (Kal. 1910; S. H. IV, 1687)	G		
A618	Diphenyl Blue BEC	G		
A619	Diphenyl Blue BBEC	G		
A620	Diphenyl Blue BTC	G		
A621	Diphenyl Blue 2 R	G		
	DIPHENYL DEEP BLACK		21,086	4,216
A622	Diphenyl Deep Black GC (S. H. IV, 1923) 1902	G		
A623	Diphenyl Deep Black GN superfine	G		
A624	Diphenyl Deep Black GWC	G		
A625	Diphenyl Deep Black VN superfine	G		
A626	Diphenyl Deep Black VP	G		
A627	DIPHENYL FAST GRAY BC (Kal. 1910)	G	441	
A628	DIPHENYL FAST VIOLET BC 251 (Kal. 1910)	G	485	
	DIPHENYL GREEN		18,021	4,667
A629	Diphenyl Green BC (S.; Kal. 1909; S. H. IV, 1621)	G		
A629	Diphenyl Green 3 GC (S.; Kal. 1909; S. H. IV, 1621)	G		
A629	Diphenyl Green 3 GF conc. (Kal. 1914)	G		
A629	Diphenyl Green KGW	G		
A629	Diphenyl Green KGW superfine	G		
A633	DIPHENYL DARK GREEN BC	G	507	
A634	DIPHENYL SCARLET 3 B	G	220	
A635	DIPHENYL VIOLET BVC (S. H. IV, 1738)	G	3,064	
A636	DIRECT BROWN 3 GNC (S.; S. H. IV, 1800; made from p-nitrotoluene-sulphonic acid)	G	5,046	
A637	ERIO FAST BLUE SWR superfine (Kal. 1914)	G	661	
A638	ERIOAZURINE BC (S. H. IV, 1422) 1902	G	1,411	
A639	ERIOCARMINE 2 BC (S. H. IV, 1403) 1902	G	1,146	
	ERIOCHROME BROWN		4,443	1,305
A640	Eriochrome Brown RC (S.; Kal. 1908)	G		
A641	Eriochrome Brown SDE (S.; Kal. 1909)	G		
A642	Eriochrome Brown V	G		
	ERIOCHROME VIOLET		989	234
A643	Eriochrome Violet B (S. 1906)	G		
A644	Eriochrome Violet 2 BL (Kal. 1911)	G		
	ERIOCHROME YELLOW		9,507	1,213
A645	Eriochrome Yellow 2 G paste (R. 67)	G		
A646	Eriochrome Yellow 3 G (S.; Kal. 1905; R. 67)	G		
A647	Eriochrome Yellow GR (S.; Kal. 1905; R. 67)	G		
A648	Eriochrome Yellow S (S.; Kal. 1909; R. 67)	G		
A649	ERIORUBINE B superfine (S. H. IV, 1404)	G	121	
	POLYPHENYL BLACK		3,080	810
A650	Polyphenyl Black BVC (S.; S. H. IV, 1921) 1898	G		
A651	Polyphenyl Black GNC 1902	G		
	POLYPHENYL BLUE		4,845	997
A652	Polyphenyl Blue GC (S.; S. H. IV, 1689)	G		
A653	Polyphenyl Blue GF conc	G		
A654	POLYPHENYL BRILLIANT BLUE 3 G conc	G	220	
A655	POLYPHENYL FAST RED BC (S.; Kal. 1909)	G	529	
A656	POLYPHENYL ORANGE RC	G	4,409	
A657	POLYPHENYL YELLOW 3 GC (S.; S. H. IV, 1530) 1900	G	4,541	
A658	RENOL LIGHT BLUE G extra conc. (S.)	G	1,217	
A659	THIAZINE BLUE (for black)	G	55	

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
A660	VIOLET DIRECT VR	G	55	
A661	BENZYL BLACK B (S.; S. H. IV, 2421)1903	I	198	
A662	BENZYL REDS	I	331	
A663	CHLORANTINE BLUE BB (S.; S. H. IV, 1695-96; derived from naphthaceto-sulphonic acid 1:8:3:6.)	I	198	
	CHLORANTINE BROWN		18,267	$4,034
A664	Chlorantine Brown BB (S. H. IV, 1801)1899	I		
A665	Chlorantine Brown R (S. H. IV, 1801)1899	I		
A666	Chlorantine Brown 15521	I		
A667	Chlorantine Brown 15895	I		
	CHLORANTINE LILAC		2,090	769
A668	Chlorantine Lilac B (S.; S. H. IV, 1740)	I		
A669	Chlorantine Lilac BB (S.)	I		
	CHLORANTINE ORANGE		5,189	1,070
A670	Chlorantine Orange TR (S. H. IV, 1556-7)	I		
A670	Chlorantine Orange TR 6 per cent	I		
A671	Chlorantine Orange 11323 (S. H. IV, 1556)	I		
A672	CHLORANTINE PURE BLUE (S. H. IV, 1696)	I	2,777	
A673	CHLORANTINE VIOLET BB (S. H. IV, 1742)	I	249	
	CHROME FAST BROWN		12,204	3,550
A674	Chrome Fast Brown A conc. (S. 1906)	I		
A675	Chrome Fast Brown BC (S. 1905)	I		
A676	Chrome Fast Brown G	I		
A677	Chrome Fast Brown TV (S. 1912)	I		
A678	Chrome Fast Brown 12684	I		
A679	Chrome Fast Brown V	I		
A680	Chrome Fast Brown 15823	I		
	CHROME FAST CYANINE		9,511	1,717
A681	Chrome Fast Cyanine G (S.; Kal. 1907)	I		
A681	Chrome Fast Cyanine G 8 per cent	I		
	CHROME FAST GREEN		12,943	6,670
A682	Chrome Fast Green G (S. 1907)	I		
A683	Chrome Fast Green GL (S. 1912)	I		
A684	Chrome Fast Green 16394	I		
A685	CHROME FAST ORANGE R (Kal. 1914)	I	600	
A686	CHROME FAST VIOLET B (Kal. 1908)	I	99	
	CUPRANIL BROWN		24,851	4,859
A687	Cupranil Brown (S.; S. H. IV, 1802; S. J., 2d ed., 968)	I		
A688	Cupranil Brown (S. H. IV, 1802; S. J., 2d ed., 968)	I		
A688	Cupranil Brown G 15664	I		
A688	Cupranil Brown G 150 per cent	I		
A689	Cupranil Brown R (S. H. IV, 1802; S. J., 2d ed., 968)	I		
A689	Cupranil Brown R 8 per cent	I		
A690	Cupranil Brown 12366	I		
A690	Cupranil Brown 15596	I		
A690	Cupranil Brown 15903	I		
A691	CUTCH BROWN 11759 (S. H. IV, 1751)	I	2,205	
	DIRECT BLACK		22,223	4,205
A692	Direct Black E (S. 1906)	I		
A693	Direct Black 14714	I		
A694	DIRECT CHROME BLACK 14722	I	110	
A695	DIRECT CUTCH GG (Kal. 1914)	I	48	
A696	DIRECT FAST BLACK B (Kal. 1908)	I	11,290	
	DIRECT FAST SCARLET		1,171	344
A697	Direct Fast Scarlet B (S.; Kal. 1909)	I		
A698	Direct Fast Scarlet 17474	I		
A698	Direct Fast Scarlet 17525	I		
A698	Direct Fast Scarlet 17616	I		
A699	DIRECT SAFRANINE B (S. H. IV, 1601)	I		

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	DIRECT SKY BLUE		4,704	$1,235
A700	Direct Sky Blue (green shade) conc. 250 per cent	I		
A700	Direct Sky Blue 13108	I		
	INDIGENE BLUE		1,482	585
A701	Indigene Blue BB (S. 1899; S. H. IV, 1696) 1898	I		
A702	Indigene Blue R (S. 1899; S. H. IV, 1696) 1898	I		
A702	Indigene Blue R 125 per cent	I		
A703	MORDANT BLUE 13707	I	461	
	ROSANTHRENE		994	228
A704	Rosanthrene AWL (S.; Kal. 1907; S. H. IV, 1602)	I		
A705	Rosanthrene B	I		
A706	Rosanthrene CB	I		
A707	Rosanthrene R	I		
A708	ROSANTHRENE BORDEAUX B 400 per cent (S.; Kal. 1905)	I	51	
A709	ROSANTHRENE ORANGE 16754 (S.; Kal. 1910)	I	44	
A710	ROSANTHRENE VIOLET SR	I	99	
A711	AZO RHODINE 2 B (S.; Kal. 1912)	S	10,108	
A712	CHLORAMINE RED B (S.; Kal. 1905; S. H. IV, 1584)	S	331	
A713	CHLORAMINE VIOLET N (S. H. IV, 1731)	S	110	
A714	COTTON GREEN D	S	2,206	
	CUTCH BROWN		661	228
A715	Cutch Brown R	S		
A715	Cutch Brown R conc	S		
A716	DIAMINE CATECHINE G (S. H. IV, 1785)	S	2,189	
	DIRECT CATECHINE		1,323	451
A717	Direct Catechine G	S		
A718	Direct Catechine 30	S		
	DIRECT SKY BLUE		58,838	12,337
A719	Direct Sky Blue FF	S		
A719	Direct Sky Blue FF conc	S		
A720	Direct Sky Blue 22 conc. 5:10	S		
	PYRAZOLE ORANGE		1,256	365
A721	Pyrazole Orange G (S.; Kal. 1910, 1911)	S		
A722	Pyrazole Orange R (S.; Kal. 1910, 1911)	S		
A723	ACID CHROME BLACK 1551	CV	500	
A724	ACID CHROME BLUE B	CV	100	
A725	ACID CHROME RED N	CV	50	
A726	ANTHRACYL BLUE SWR	CV	1,200	
A727	AZOMINE BLACK FF extra	CV	1,500	
A728	AZOMINE FAST YELLOW AL	CV	300	
A729	AZOMINE MILLING BLACK N	CV	22,500	
A730	NITRO AZOMINE GREEN F	CV	100	
A731	PHENYL CRIMSON S	CV	4,800	
A732	COTTON CUTCH 21 A	Lev	1,606	
A733	CASHMERE BLACK MCS (S.)	H	40	
A734	CHLORAZOL BRILLIANT BORDEAUX RH (Kal. 1914)	H	300	
	CHLORAZOL BROWN		2,931	662
A735	Chlorazol Brown G 40 per cent (Kal. 1909)	H		
A735	Chlorazol Brown G 50 per cent (Kal. 1909)	H		
A736	Chlorazol Brown M 90 per cent STG (S.; Kal. 1908)	H		
A737	Chlorazol Brown MAS (S.; Kal. 1908)	H		

E. UNCLASSIFIED AZO COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation. Pounds.	Value.
A738	CHLORAZOL BRILLIANT GREEN G (S. 1905)	H	520	
A739	CHLORAZOL CATECHINE B (S.; Kal. 1909)	H	100	
A740	CHLORAZOL DRAB RH (S.; Kal. 1913)	H	2,572	
A741	CHLORAZOL FAST BLUE RH (S.; Kal. 1909)	H	1,005	
A742	CHLORAZOL FAST BORDEAUX B (S.; Kal. 1911)	H	150	
A743	CHLORAZOL FAST RED 10 B (Kal. 1907)	H	600	
A744	CHLORAZOL FAST SCARLET RH (Kal. 1914)	H	422	
	CHLORAZOL FAST YELLOW		4,876	$575
A745	Chlorazol Fast Yellow A 145 per cent (Kal. 1908)	H		
A746	Chlorazol Fast Yellow AF (Kal. 1914)	H		
A747	Chlorazol Fast Yellow AG (Kal. 1914)	H		
A748	Chlorazol Fast Yellow BS (S.; Kal. 1905)	H		
A749	Chlorazol Fast Yellow R 100 per cent (Kal. 1914)	H		
A750	CHLORAZOL GREEN G (Kal. 1909)	H	3,966	
A751	CHLORAZOL RED A (Kal. 1909)	H	775	
	CHLORAZOL SKY BLUE		2,788	915
A752	Chlorazol Sky Blue FF	H		
A753	Chlorazol Sky Blue FFS	H		
	CHLORAZOL VIOLET		1,346	176
A754	Chlorazol Violet B	H		
A755	Chlorazol Violet 3 B (Kal. 1908)	H		
A756	Chlorazol Violet R	H		
A757	CLARET RED	H	3,961	
	INGRAIN BLACK		5,114	735
A758	Ingrain Black 4 B	H		
A759	Ingrain Black	H		
A760	OXY CHLORAZOL BLUE B (Kal. 1908)	H	284	
	TITAN COMO		400	88
A761	Titan Como 2 B (S.; Kal. 1905; S. J., 2d ed., 951)	H		
A762	Titan Como R (S.; Kal. 1905; S. J., 2d ed., 951; Hurst, Dict. of the Coal Tar Colors (1896), 198)....1894	H		
A763	TITAN FAST BLACK B (S.; Kal. 1909)	H	402	
A764	TITAN ORANGE 33 per cent (S.; S. J., 2d ed., 907; Hurst, Dict. of the Coal Tar Colors (1896), 199)....1890	H	600	
A765	CHROME BLACK BA	Q	2,535	465

VI. DIPHENYLMETHANE COLORING MATTERS.

493	AURAMINE....1883 Hydrochloride of imido-tetramethyl-diamido-diphenyl-methane. $HN=C\begin{cases}[1]C_6H_4[4]N(CH_3)_2\\ [1]C_6H_4[4]N(CH_3)_2HCl\end{cases}$		449,276	$107,887
	Auramine conc	B		
	Auramine OEA	B		
	Auramine OOD	B		
	Auramine OOD extra	B		
	Auramine OOD 142	B		
	Auramine OOD 203	B		
	Auramine OOD 232	B		
	Auramine conc	By		
	Auramine O	By		
	Auramine base	K		
	Auramine OOD	K		
	Auramine OO 3	K		
	Auramine OO 4	K		
	Auramine 23112	K		
	Auramine conc	M		

VI. DIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
493	AURAMINE—Continued.			
	Auramine extra	tM		
	Auramine extra conc	AW		
	Auramine extra	AW		
	Auramine OO (801)	G		
	Auramine OO (445)	G		
	Auramine OO (446)	G		
	Auramine OOP	I		
	Auramine extra conc	S		
	Auramine N conc. powder 29727	S		
	Auramine N conc. powder 80 per cent	S		
	Auramine N conc. powder 65 per cent	S		
	Auramine N conc. powder 60 per cent	S		
	Auramine N conc. powder 9 per cent	S		
	Auramine	H		
494	AURAMINE G ..... 1892 Hydrochloride of imido-dimethyl-diamido-ditolyl-methane. $HN{=}C\begin{cases}[1]C_6H_3\begin{cases}[3]CH_3\\[4]NH(CH_3)HCl\end{cases}\\[1]C_6H_3\begin{cases}[3]CH_3\\[4]NH(CH_3)\end{cases}\end{cases}$	.....	1,902	$1,036
	Auramine G	tM		
	Auramine G	I		

VII. TRIPHENYLMETHANE AND DIPHENYL-NAPHTHYL-METHANE COLORING MATTERS.

A. TRIPHENYLMETHANE COLORS.

1. Diamido derivatives.

495	MALACHITE GREEN ..... 1877 Zinc double chloride, oxalate, ferric double chloride of tetramethyl-di-p-amido-triphenyl-carbinol. *Hydrochloride:* $C_6H_5{-}C\begin{cases}-[1]C_6H_4[4]{-}N(CH_3)_2\\-[1]C_6H_4[4]{=}N(CH_3)_2Cl\end{cases}$ *Zinc double chloride:* $(C_{23}H_{25}N_2Cl)_2{+}2ZnCl_2{+}2H_2O$ *Oxalate:* $(C_{23}H_{24}N_2)_2(C_2H_2O_4)_3$	.....	178,831	$43,263
	Diamond Green B crystals	B		
	Diamond Green B powder	B		
	Diamond Green BX	B		
	Malachite Green BX	B		
	Solid Green A 218. (Current marks, A, 4 B, J, O, OO.)	C		
	Solid Green 23 O 1143	C		
	Solid Green V 428	C		
	Malachite Green crystals NN	K		
	Malachite Green P	K		
	Malachite Green powder 2639	K		
	Malachite Green base	M		
	Malachite Green IA 4 B	M		
	Malachite Green crystals extra MS	M		
	Malachite Green crystals extra MS 15 per cent red	M		
	Malachite Green crystals extra MS 30 per cent red	M		
	Malachite Green extra yellow N	M		
	Malachite Green superfine powder	M		
	Malachite Green salt 10	CJ		
	Malachite Green Z powder	CJ		
	Malachite Green powder	tM		
	Green Crystals E	tM		
	Green Crystals M	tM		
	Malachite Green crystals	tM		
	Malachite Green crystals extra	AW		
	Malachite Green crystals 80 per cent	AW		
	Malachite Green crystals extra conc	G		
	Green Crystals F 10 per cent	H		
	Green Crystals YD	H		

VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
495a	GREEN (V. M.)		5,021	$896
	Green A	H		
	Green HD	H		
	Green 15825	H		
496	SETOGLAUCINE ..... 1896 Hydrochloride of tetramethyl-diamido-o-chloro-triphenyl-carbinol.	G	0	
497	NEW FAST GREEN 3 B ..... 1878 Hydrochloride or zinc double chloride of tetramethyl-diamido-dichloro-triphenyl-carbinol. *Hydrochloride:* $C_6H_3Cl_2-C\begin{cases}-[1]C_6H_4[4]N(CH_3)_2\\=[1]C_6H_4[4]=N(CH_3)_2Cl\end{cases}$	I	0	
497a	VICTORIA GREEN (V. M.)		44,595	10,905
	Victoria Green extra conc. crystals	B		
	Victoria Green extra conc. powder	B		
	Victoria Green Base	B		
	Victoria Green B F	B		
	Victoria Green 4833	By		
	Victoria Green 4834	By		
	Victoria Green Base fine powder	tM		
	Victoria Green crystals	tM		
498	TURQUOISE BLUE ..... 1894 Tetramethyl-diamido-p-nitro-tolyl-diphenyl-carbinol. $HO-C\begin{cases}[1]C_6H_4[4]N(CH_3)_2\\C_6H_3\begin{cases}[1]CH_3\\[4]NO_2\end{cases}\\[1]C_6H_4[4]N(CH_3)_2\end{cases}$		1,541	2,550
	Turquoise Blue G	By		
	Turquoise Blue	Q		
499	BRILLIANT GREEN Sulphate or zinc double chloride (rarely oxalate) of tetraethyl-diamido-triphenyl-carbinol. *Sulphate:* $C_6H_5-C\begin{cases}-[1]C_6H_4[4]N(C_2H_5)_2\\=[1]C_6H_4[4]=N(C_2H_5)_2SO_4H\end{cases}$		73,904	16,245
	Diamond Green G 3114	B		
	Diamond Green G F	B		
	Diamond Green G N	B		
	Brilliant Green extra crystals	By		
	Brilliant Green D 221	C		
	Brilliant Green crystals extra 1440	K		
	Brilliant Green crystals extra	K		
	Brilliant Green crystals	M		
	Brilliant Green crystals extra 15 per cent red	M		
	Brilliant Green crystals extra 30 per cent red	M		
	Brilliant Green S crystals	CJ		
	Brilliant Green P N D	GrE		
	Brilliant Green crystals	tM		
	Brilliant Green B conc	tM		
	Brilliant Green B powder	tM		
	Brilliant Green B N crystals	tM		
	Brilliant Green crystals 34 extra conc	tM		
	Brilliant Green crystals T 1830	tM		
	Brilliant Green crystals 27 S	tM		
	Brilliant Green crystals T 7662	tM		
	Brilliant Green crystals	A W		
	Solid Green 3 G	Q		
500	SETOCYANINE Hydrochloride of diethyl-diamido-o-chloro-phenyl-ditolyl-carbinol. $Cl[2]C_6H_4[1]-C\begin{cases}-[1]C_6H_3\begin{cases}[3]CH_3\\[4]NH(C_2H_5)\end{cases}\\=[1]C_6H_3\begin{cases}[3]CH_3\\[4]=NH(C_2H_5)Cl\end{cases}\end{cases}$		923	923
	Setocyanine	G		
	Setocyanine conc	G		
	Setopaline conc	G		

VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
501	**BRILLIANT GLACIER BLUE**.....1892 Zinc double chloride of dimethyl-diamido-di-o-tolyl-dichlorophenyl-carbinol. *Hydrochloride*: $Cl[2]\atop Cl[5}C_6H_3[1]-C\begin{cases}-[1]C_6H_3\begin{cases}[3]CH_3\\[4]NH\,.\,CH_3\end{cases}\\-[1]C_6H_3\begin{cases}[3]CH_3\\[4]:NHCH_3Cl\end{cases}\end{cases}$	I	2,495	
502	**GUINEA GREEN**.....1883 Sodium salt of diethyl-dibenzyl-diamido-triphenyl-carbinol-disulphonic acid. $HO-C\begin{cases}[1]C_6H_4[4]N(C_2H_5)\,.\,CH_2\,.\,C_6H_4\,.\,SO_3Na\\C_6H_5\\[1]C_6H_4[4]N(C_2H_5)\,.\,CH_2\,.\,C_6H_4\,.\,SO_3Na\end{cases}$	.....	14,606	23,262
	Guinea Green B	A		
	Guinea Green B extra	A		
	Guinea Green G extra	A		
	Guinea Green G extra 50:100	A		
	Acid Green 2 B	P		
502a	**ACID GREEN (V. M.)**	.....	35,365	9,397
	Acid Green extra conc. 19923 III	tM		
	Acid Green 2 A extra conc. powder	tM		
	Acid Green B powder conc	tM		
	Acid Green B	tM		
	Acid Green 2 BA extra	tM		
	Acid Green 2 BA extra conc	tM		
503	**NEPTUNE GREEN**.....1899 Sodium salt of chloro-diethyl-dibenzyl-diamido-triphenyl-carbinol-disulphonic acid. $Cl[2]C_6H_4[1]-C\begin{cases}[1]C_6H_4[4]N(C_2H_5)CH_2\,.\,C_6H_4\,.\,SO_3Na\\OH\\[1]C_6H_4[4]N(C_2H_5)CH_2\,.\,C_6H_4\,.\,SO_3Na\end{cases}$	.....	40,868	13,225
	Neptune Green SAX	B		
	Neptune Green SBL (S.; R. 51)	B		
	Neptune Green SGX	B		
	Brilliant Acid Green 6 B	By		
	Brilliant Milling Green B	C		
	Milling Green BW	L		
	Night Green A extra powder	tM		
	Night Green A extra conc. powder	tM		
	Erioviridine B superfine	G		
	Benzyl Green B	I		
	Benzyl Green B conc. 7 per cent	I		
503a	**FAST ACID GREEN RH (S.; Kal. 1909)**	H		
504	**LIGHT GREEN (bluish)**.....1879 Sodium salt of dimethyl-dibenzyl-diamido-triphenyl-carbinol-trisulphonic acid. $HO-C\begin{cases}[1]C_6H_4[4]N(CH_3)\,.\,CH_2\,.\,C_6H_4\,.\,SO_3Na\\C_6H_4.SO_3Na\\[1]C_6H_4[4]N(CH_3)\,.\,CH_2\,.\,C_6H_4\,.\,SO_3Na\end{cases}$	.....	6,693	197
	Light Green SF (bluish) II	B		
	Acid Green	I		
505	**LIGHT GREEN (yellowish)**.....1879 Sodium salt of diethyl-dibenzyl-diamido-triphenyl-carbinol-trisulphonic acid. $HO-C\begin{cases}[1]C_6H_4[4]N(C_2H_5)\,.\,CH_2\,.\,C_6H_4\,.\,SO_3Na\\C_6H_4\,.\,SO_3Na\\[1]C_6H_4[4]N(C_2H_5)\,.\,CH_2\,.\,C_6H_4\,.\,SO_3Na\end{cases}$	.....	24,946	5,960
	Guinea Green 2 G	A		
	Light Green SF (yellow shade)	B		
	Light Green SF yellow shade XX	B		
	Light Green SL	B		
	Acid Green GG	By		
	Acid Green GG conc	By		
	Acid Green G conc	K		
	Acid Green conc. 207	WD		

VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
505a	ACID GREEN (V. M.)		46,461	$20,176
	Acid Green 33 A 1380. (Current marks, B, 421, 780.)	C		
	Acid Green H 225	C		
	Acid Green K 227	C		
	Acid Green B	K		
	Acid Green CH extra	K		
	Acid Green K	K		
	Acid Green K extra	K		
	Acid Green conc	M		
	Acid Green AS conc	M		
	Acid Green 2 GN powder extra conc	tM		
	Acid Green 2 NG extra powder	tM		
	Acid Green 2 Y extra conc. powder	tM		
	Acid Green yellowish	tM		
	Acid Green S 300 per cent	AW		
	Acid Green GK 15 per cent strong	H		
	Acid Green RX	H		
	Acid Green X 15825	H		
	Acid Green 74C14	H		
	Acid Green BX	Q		
	Acid Green G	Q		
505b	ACID DARK GREEN	I	55	
506	ERIOGLAUCINE. 1896 Acid ammonium salt of the trisulphonic acid of diethyl-dibenzyl-diamido-triphenyl-carbinol $HO-C\begin{cases}[1]C_6H_4[4]N(C_2H_5)CH_2 \cdot C_6H_4 \cdot SO_2NH_4\\ [1]C_6H_4[4]SO_2NH_4\\ [1]C_6H_4[4]N(C_2H_5)CH_2 \cdot C_6H_4 \cdot SO_2NH_4\end{cases}$		66,536	28,971
	Erioglaucine superfine	G		
	Erioglaucine AP	G		
	Erioglaucine EP	G		
	Erioglaucine X high conc	G		
	Erioglaucine 49141	H		
507	XYLENE BLUE VS. 1902 Sodium salt of the disulphonic acid of tetraethyl-diamido-diphenyl-tolyl-carbinol. $HO-C\begin{cases}[1]C_6H_4[4]N(C_2H_5)_2\\ [1]C_6H_2\begin{cases}[2]SO_2Na\\ [5]CH_3\\ [4]SO_2Na\end{cases}\\ [1]C_6H[4]N(C_2H_5)_2\end{cases}$		2,130	897
	Xylene Blue VS (Kal. 1907, 1913)	S		
	Xylene Blue VS conc. 7:10 (Kal. 1905)	S		
508	XYLENE BLUE AS. 1902 Sodium salt of the disulphonic acid of diethyl-dibenzyl-diamido-diphenyl-tolyl-carbinol. $HO-C\begin{cases}[1]C_6H_4[4]N(C_2H_5)CH_2 \cdot C_6H_5\\ [1]C_6H_2\begin{cases}[2]SO_2Na\\ [5]CH_3\\ [4]SO_2Na\end{cases}\\ [1]C_6H_4[4]N(C_2H_5)CH_2 \cdot C_6H_5\end{cases}$		8,238	4,339
	Xylene Blue AS (Kal. 1907)	S		
	Xylene Blue AS conc	S		
	Xylene Blue AS conc. 5:10	S		
	Xylene Blue ASL conc. 5:10 (Kal. 1909)	S		
	Xylene Blue BS conc. 7:10	S		
509	CHROME GREEN. 1890 Tetramethyl-diamido-triphenyl-carbinol-m-carboxylic acid.	By	0	
510	AZO GREEN. 1888 Tetramethyl-diamido-triphenyl-carbinol-azo-salicylic acid.	By	0	
	2. Triamido derivatives.			
511	PARA-FUCHSINE. 1858 Hydrochloride of pararosaniline. Hydrochloride of triamido-triphenyl-carbinol.	GrE	65,026	

VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
512	MAGENTA.....1856 Mixture of hydrochloride or acetate of pararosaniline (triamido-triphenyl-carbinol) and rosaniline (triamido-diphenyl-tolyl-carbinol). *Hydrochlorides:* $C\begin{cases}-[1]C_6H_4[4]NH_2\\-[1]C_6H_4[4]NH_2\\=[1]C_6H_4[4]:NH_2Cl\end{cases}+4H_2O$ and $C\begin{cases}-[1]C_6H_3\begin{cases}[3]CH_3\\[4]NH_2\end{cases}\\-[1]C_6H_4[4]NH_2\\=[1]C_6H_4[4]:NH_2Cl\end{cases}+4H_2O$	.....	87,102	$25,659
	Rubine small crystals	A		
	Rubine small crystals powder	A		
	Rubine N crystals	A		
	Russian Leather Red R	A		
	Cerise D IV	B		
	Cerise DN lumps	B		
	Magenta (acetate)	B		
	Magenta A powder	B		
	Magenta AB powder	B		
	Magenta L	B		
	Magenta S	B		
	Maroon	By		
	Cerise N	C		
	Fuchsine 76712 J	C		
	Magenta B	C		
	Russia Red 57 L 1992. (Current marks, B, G.)	C		
	Magenta crystals	K		
	Magenta crystals 81076	K		
	Magenta 1653 powder	M		
	New Magenta O	M		
	Fuchsine I small crystals (S.)	GrE		
	Cerise M	tM		
	Fuchsine powder	tM		
	Fuchsine B powder	tM		
	Fuchsine MB crystals	tM		
	Fuchsine MB powder	tM		
	Magenta crystals 3	tM		
	Magenta crystals 39703	tM		
	Magenta medium crystals	tM		
	Magenta crystals II	tM		
	Magenta TP powder	tM		
	Fuchsine ASV	P		
	Aniline Red B conc	I		
	Geranium B	S		
	Roseine B	S		
	Cardinal 3 B 1601	H		
	Magenta FABS crystals	H		
	Marron Cordu	Q		
513	NEW FUCHSINE.....1889 Hydrochloride of triamido-tritolyl-carbinol. $H_2C[3]H_2N[4]C_6H_3[1]-C\begin{cases}-[1]C_6H_3\begin{cases}[3]CH_3\\[4]NH_2\end{cases}\\=[1]C_6H_3\begin{cases}[3]CH_3\\[4]=NH_2Cl\end{cases}\end{cases}$	.....	300	96
	New Fuchsine S	GrE		
	New Magenta O	GrE		
514	RED VIOLET powder.....1863 Mixture of the hydrochlorides or acetates of the mono- di- or tri- methyl-(or ethyl-)rosanilines and pararosanilines. *Hydrochloride of triethyl-rosaniline:* $C\begin{cases}-[1]C_6H_3\begin{cases}[3]CH_3\\[4]NH(C_2H_5)\end{cases}\\-[1]C_6H_4[4]NH(C_2H_5)\\=[1]C_6H_4[4]=NH(C_2H_5)Cl\end{cases}$	tM	331	

VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
515	**METHYL VIOLET**.....1861	.....	255,063	$63,1[illegible]
	Chiefly:			
	Hydrochloride of penta- and hexa- methyl-pararosaniline.			
	$C\begin{cases}-[1]C_6H_4[4]N(CH_3)_2\\-[1]C_6H_4[4]N(CH_3)_2\\=[1]C_6H_4[4]=NH(CH_3)Cl\end{cases}$			
	Methyl Violet base	B		
	Methyl Violet B extra	B		
	Methyl Violet BB	B		
	Methyl Violet BB extra	B		
	Methyl Violet N	B		
	Methyl Violet NY 147	B		
	Methyl Violet 5 RO	B		
	Methyl Violet IB	By		
	Methyl Violet IBA	By		
	Methyl Violet 5 R	By		
	Methyl Violet 3 L 206. (Current marks, BI, 2 BI, 3 BI, 4 BI, 5 BI, 6 BI, BO, 2 BO, 4 BO, 5 BO, 6 BO, J, RT, 2 RI, 3 RI, 4 RI, RO, RRO.)	C		
	Methyl Violet 13 R 896	C		
	Methyl Violet 9 Y 803	C		
	Methyl Violet 129. (Current marks, 3 B, 4 B, 5 B, R, 2 R, 3 R, 4 R, V 3.)	K		
	Methyl Violet 2 B	K		
	Methyl Violet BB reddish	K		
	Methyl Violet base BB	K		
	Methyl Violet base 882	K		
	Methyl Violet BB extra conc	M		
	Methyl Violet 2 B chemically pure	M		
	Methyl Violet B-BBM	M		
	Methyl Violet 4 B 1808	M		
	Methyl Violet 6 B	M		
	Methyl Violet R	M		
	Methyl Violet 3 R	M		
	Methyl Violet 3 R superior	M		
	Methyl Violet 5 R	M		
	Methyl Violet 4 BOOATN	GrE		
	Methyl Violet powder	tM		
	Methyl Violet B extra conc	tM		
	Methyl Violet BIA powder	tM		
	Methyl Violet 2 B extra	tM		
	Methyl Violet 2 B 42406	tM		
	Methyl Violet 2 B extra conc	tM		
	Methyl Violet 2 B extra conc. SO	tM		
	Methyl Violet 2 BIA	tM		
	Methyl Violet 2 BP	tM		
	Methyl Violet 2 BN	tM		
	Methyl Violet 3 B	tM		
	Methyl Violet 3 BIA	tM		
	Methyl Violet 3 BHN	tM		
	Methyl Violet 4 B	tM		
	Methyl Violet 5 B powder	tM		
	Methyl Violet 5 B 42	tM		
	Methyl Violet 5 BIA	tM		
	Methyl Violet 6 BN	tM		
	Methyl Violet 7 B	tM		
	Methyl Violet 7 B 40	tM		
	Methyl Violet DB base	tM		
	Methyl Violet R powder	tM		
	Methyl Violet RIA	tM		
	Methyl Violet 5 R powder	tM		
	Methyl Violet 5 RA powder	tM		
	Methyl Violet 3 R	tM		
	Paris Violet	P		
	Paris Violet 90	P		
	Paris Violet 3 B	P		
	Paris Violet 6 B	P		
	Paris Violet 3 BA	P		
	Paris Violet 4 BA	P		
	Paris Violet 4 R	P		
	Methyl Violet B extra conc	G		
	Methyl Violet 2 B extra conc	G		
	Methyl Violet base 74418	H		
	Methyl Violet 5 R powder	Q		

VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
516	CRYSTAL VIOLET.....1883 Hydrochloride of hexamethyl-pararosaniline. $C\begin{cases}-[1]C_6H_4[4]N(CH_3)_2\\-[1]C_6H_4[4]N(CH_3)_2\\=[1]C_6H_4[4]=N(CH_3)_2Cl\end{cases}$	.....	33,653	$13,664
	Crystal Violet 6 B powder.....	A		
	Crystal Violet.....	B		
	Crystal Violet extra.....	B		
	Crystal Violet CV extra.....	B		
	Crystal Violet 16 W 976. (Current marks, 5 B, 10 B.).....	C		
	Violet Crystals.....	K		
	Violet Crystals 142 S.....	K		
	Violet Crystals O.....	M		
	Crystal Violet crystals.....	tM		
	Crystal Violet powder.....	tM		
	Crystal Violet powder.....	AW		
	Crystal Violet crystals.....	AW		
	Crystal Violet 484 powder.....	I		
	Violet Crystals 6 BO.....	I		
	Crystal Violet.....	S		
516a	VIOLET (V. M.).....	.....	18,219	5,289
	Violet 2 B.....	K		
	Violet neutral O.....	M		
	Violet base 5747.....	BK		
	Violet 2 B.....	tM		
	Violet NX.....	AW		
	Violet 9 O.....	P		
	Violet 300 XE.....	P		
	Violet 55396.....	H		
	Violet base 2 B.....	Q		
	Violet DV conc.....	Q		
517	BENZYL VIOLET.....1866 Chiefly a mixture of the hydrochlorides of benzyl-pentamethyl-pararosaniline and hexamethyl-pararosaniline. *Benzyl-pentamethyl-pararosaniline hydrochloride:* $C\begin{cases}=[1]C_6H_4[4]=N(CH_3)_2Cl\\-[1]C_6H_4[4]N(CH_3)_2\\-[1]C_6H_4[4]N(CH_3)(CH_2\,.\,C_6H_5)\end{cases}$	.....	22,387	6,018
	Methyl Violet 6 B extra.....	B		
	Methyl Violet 5 B.....	By		
	Methyl Violet 7 B.....	By		
	Methyl Violet base 7 B.....	BK		
	Benzyl Violet 4 B.....	I		
	Benzyl Violet 4 B 3 per cent.....	I		
	Benzyl Violet 6 B.....	I		
	Violet 6 B.....	Q		
518	ETHYL PURPLE.....1883 Hydrochloride of hexaethyl-pararosaniline. $C\begin{cases}-[1]C_6H_4[4]N(C_2H_5)_2\\-[1]C_6H_4[4]N(C_2H_5)_2\\=[1]C_6H_4[4]=N(C_2H_5)_2Cl\end{cases}$	.....	51,933	23,101
	Ethyl Violet.....	B		
	Ethyl Purple.....	B		
	Ethyl Purple conc.....	B		
	Ethyl Violet (chem. pure).....	M		
	Ethyl Violet 8682.....	I		
	Light Green 2 A powder extra conc.....	tM		
519	METHYL GREEN.....1871 Zinc double chloride of heptamethyl-pararosaniline-chloride.	P	0	
520	DIPHENYLAMINE BLUE.....1866 Hydrochloride of triphenyl-pararosaniline. $C\begin{cases}-[1]C_6H_4[4]NH\,.\,C_6H_5\\-[1]C_6H_4[4]NH\,.\,C_6H_5\\=[1]C_6H_4[4]=NHC_6H_5Cl\end{cases}$	DH	0	

VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
520a	AZURINE B conc. (S.; S. J., 2d ed., 296; an impure triphenyl-p-rosaniline hydrochloride, obtained from aniline and rosolic acid)	I	2,149	
521	ANILINE BLUE.....1860 Hydrochloride, sulphate, or acetate of triphenyl-rosaniline and triphenyl-pararosaniline.	.....	50,563	$13,586
	Hydrochloride:			
	$C\begin{cases}-[1]C_6H_4[4]NH\cdot C_6H_5\\-[1]C_6H_4[4]NH\cdot C_6H_5\\=[1]C_6H_4[4]=NHC_6H_5Cl\end{cases}$			
	and			
	$C\begin{cases}-[1]C_6H_3(CH_3)[4]NH\cdot C_6H_5\\-[1]C_6H_4[4]NH\cdot C_6H_5\\=[1]C_6H_4[4]=NHC_6H_5Cl\end{cases}$			
	Aniline Blue 2 B	A		
	Blue (greenish) spirit soluble	M		
	Opal Blue (blue shade)	M		
	Spirit Blue R	M		
	Aniline Blue 6416	CG		
	Aniline Blue B in grains	tM		
	Aniline Blue 3 B powder	tM		
	Aniline Blue RN in grains	tM		
	Light Blue powder	tM		
	Spirit Blue BVE	P		
522	VICTORIA BLUE 4 R.....1883 Hydrochloride of α-naphthyl-pentamethyl-triamido-triphenyl-pararosaniline.	.....	9,599	2,688
	$C\begin{cases}-[1]C_6H_4[4]N(CH_3)_2\\-[1]C_6H_4[4]N(CH_3)_2\\=[1]C_6H_4[4]=N(CH_3)(C_{10}H_7)Cl\end{cases}$			
	Victoria Blue 4 R	B		
	Victoria Blue 4 R conc	tM		
	Victoria Blue 4 R 125 per cent	I		
523	FAST GREEN.....1885 Sodium salt of tetramethyl-dibenzyl-pseudorosaniline-disulphonic acid.	.....	9,745	2,714
	$HO-C\begin{cases}-[1]C_6H_4[4]N(CH_3)_2\\-[1]C_6H_4[4]N(C_7H_7)_2\\-[1]C_6H_4[3]N(CH_3\cdot C_6H_4\cdot SO_3Na)_2\end{cases}$			
	Fast Green CR	By		
	Fast Green bluish	By		
	Fast Green bluish extra	By		
523a	FAST LIGHT GREEN (S. 1895)	By	4,162	
523b	MILLING GREEN (V. M.)	.....	440	126
	Milling Green DB	AW		
	Milling Green DS	AW		
524	ACID MAGENTA.....1877 Mixture of the sodium or ammonium salts of the trisulphonic acids of rosaniline and pararosaniline.	.....	19,093	4,989
	$HO-C\begin{cases}-[1]C_6H_3\begin{cases}[4]NH_2\\SO_3Na\end{cases}\\-[1]C_6H_3\begin{cases}[4]NH_2\\SO_3Na\end{cases}\\-[1]C_6H_3\begin{cases}[4]NH_2\\SO_3Na\end{cases}\end{cases}$			
	and			
	$HO-C\begin{cases}-[1]C_6H_3\begin{cases}[4]NH_2\\SO_3Na\end{cases}\\-[1]C_6H_3\begin{cases}[4]NH_2\\SO_3Na\end{cases}\\-[1]C_6H_2\begin{cases}[3]CH_3\\[4]NH_2\\SO_3Na\end{cases}\end{cases}$			

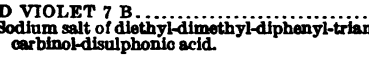
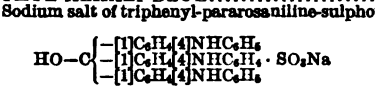
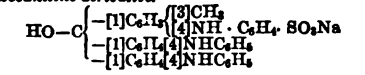
VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
524	ACID MAGENTA—Continued.			
	Acid Magenta S	A		
	Acid Magenta S extra	A		
	Acid Magenta S	B		
	Acid Magenta	By		
	Acid Magenta	C		
	Acid Magenta O	M		
	Acid Rubine	CJ		
	Acid Magenta FCNS	GrE		
	Acid Magenta S	GrE		
	Acid Magenta B 50 cryst	G		
	Acid Magenta F extra	G		
	Acid Magenta G conc. cryst	G		
	Acid Magenta 6 B	CV		
	Acid Magenta Crystals I	CV		
	Acid Magenta 2	CV		
	Acid Magenta 15 per cent	H		
	Acid Magenta 12444	H		
525	RED VIOLFT 5 RS.....1877 Sodium salt of ethylrosaniline-sulphonic acid.	B	0	
526	ACID VIOLET 4 RS.....1877 Sodium salt of dimethyl-rosaniline-trisulphonic acid.	M	0	
527	ACID VIOLET 4 BN.....1883 Sodium salt of benzyl-pentamethyl-triamido-triphenyl-carbinol-trisulphonic acid. $HO-C\begin{cases}-[1]C_6H_4[4]N(CH_3)_2[3]SO_3Na\\-[1]C_6H_4[4]N(CH_3)_2[3]SO_3Na\\-[1]C_6H_4[4]N(CH_3)CH_2\cdot C_6H_4\cdot SO_3Na\end{cases}$	.....	13,078	$4,362
	Acid Violet 4 BN	B		
	Acid Violet 6 BNB	By		
	Acid Violet 7 BN (S.; Kal. 1912, 1913)	By		
	Acid Violet 7 B conc	AW		
	Acid Violet 4 BNS (S. 1906)	S		
	Acid Violet 4 BNS conc	S		
527a	ACID VIOLET (V. M.)	.....	16,106	5,360
	Acid Violet BW (S. 1903)	By		
	Acid Violet HW.....1891	By		
	Acid Violet 8 B extra (S.).....1896	By		
	Acid Violet R extra	By		
	Acid Violet 4 R	By		
	Acid Violet 4 R 25649	By		
528	FAST ACID VIOLET 10 B.....1892 Sodium salt of benzyl-ethyl-tetramethyl-pararosaniline-disulphonic acid. $HO-C\begin{cases}-[1]C_6H_4[4]N(CH_3)_2\\-[1]C_6H_3\begin{cases}[2]SO_3Na\\[4]N(C_2H_5)CH_2\cdot C_6H_4\cdot SO_3Na\end{cases}\\-[1]C_6H_4[4]N(CH_3)_2\end{cases}$	By	12,919	
529	ACID VIOLET 6 B.....1889 Sodium salt of dimethyl-dibenzyl-triamido-triphenyl-carbinol-disulphonic acid.	A	0	
530	ACID VIOLET.....1890 Sodium salt of tetraethyl-dibenzyl-triamido-triphenyl-carbinol-disulphonic acid. $HO-C\begin{cases}-[1]C_6H_4[4]N(C_2H_5)CH_2\cdot C_6H_4\cdot SO_3Na\\-[1]C_6H_4[4]N(C_2H_5)_2\\-[1]C_6H_4[4]N(C_2H_5)CH_2\cdot C_6H_4\cdot SO_3Na\end{cases}$	.....	50,055	12,806
	Guinea Violet S 4 B	A		
	Acid Violet 4 BC	B		
	Acid Violet 4 BC conc	B		
	Acid Violet 4 B extra	By		
	Acid Violet 5 B	By		
	Acid Violet 6 B extra conc	tM		
	Acid Violet 6 BN	tM		
	Acid Violet 6 BN conc	tM		
	Acid Violet 5 B extra	AW		
	Acid Violet 6 B	G		
	Acid Violet 6 BNG 553	G		
	Acid Violet 4 BS	Q		
	Acid Violet 4 B	Q		

VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
530a	ACID VIOLET (V. M.)		65,395	$30,954
	Acid Violet BB	B		
	Acid Violet 4 BL	B		
	Acid Violet 4 BLO	B		
	Acid Violet 3 BNO	B		
	Acid Violet 6 BNO	B		
	Acid Violet C 2 B (S. 1904)	B		
	Acid Violet C 10 B (S. 1909, 1912)	B		
	Acid Violet PW	B		
	Acid Violet 4 R (S.; gives preparation)	B		
	Acid Violet SA 487. (Current marks, 6 BC, 6 BS, 4 RS.)	C		
	Acid Violet 41 A 1580	C		
	Acid Violet 20 M 1066	C		
	Acid Violet 2 B	K		
	Acid Violet 4 B extra	K		
	Acid Violet 5 B	K		
	Acid Violet 7 B extra	K		
	Acid Violet 4 BLOO	K		
	Acid Violet 6 BNOO	K		
	Acid Violet BSC	K		
	Acid Violet KB	K		
	Acid Violet 4 RN 405	K		
	Acid Violet NG	K		
	Acid Violet 1704	K		
	Acid Violet 5 BF (S.; a triphenylmethane compound)	M		
	Acid Violet B	BK		
	Acid Violet 4746	BK		
	Acid Violet 2405	tM		
	Acid Violet 4 BV	AW		
	Acid Violet C 10 B (S.)	AW		
	Acid Violet 5 B conc. (S. 1910)	G		
	Acid Violet R superfine	G		
	Acid Violet R	Q		
	Acid Violet SB	Q		
530b	FORMYL VIOLET		19,819	4,185
	Formyl Violet 43 L 1640. (Current marks, 4 B, 6 B, 8 B, 10 B, 5 BN, HW, S 4 B, S 5 B.)	C		
	Formyl Violet 666 M	C		
	Formyl Violet 3 P 210	C		
	Formyl Violet 5 S 504	C		
530c	GUINEA VIOLET (V. M.)		18,854	5,114
	Guinea Violet 4 B	A		
	Guinea Violet 6 B (S.; Kal. 1908)	A		
530d	WOOL BLUE (V. M.)		1,501	713
	Wool Blue SDOO (S.; a mixture of Acid Violet and Acid Green) 1890	B		
	Wool Blue SLOO (S.; a mixture of Acid Violet and Acid Green) 1890	B		
531	ERIOCYANINE 1895 Sodium salt of tetramethyl-dibenzyl-rosaniline-disulphonic acid. $HO-C\begin{cases}-[1]C_6H_3\begin{cases}SO_3Na\\[4]N(CH_3)_2\end{cases}\\-[1]C_6H_4[4]N(CH_3)_2\\-[1]C_6H_3\begin{cases}[2]SO_3Na\\[4]N(CH_2\cdot C_6H_5)_2\end{cases}\end{cases}$		25,091	11,987
	Eriocyanine AC	G		
	Eriocyanine R superfine (Kal. 1914)	G		
532	ALKALI VIOLET 1886 Sodium salt of tetraethyl-monomethyl-phenyl-pararosaniline-sulphonic acid. $HO\cdot C\begin{cases}-[1]C_6H_4[4]N(C_2H_5)_2\\-[1]C_6H_4[4]N(C_2H_5)_2\\-[1]C_6H_4[4]N\begin{cases}CH_3\\C_6H_4\cdot SO_3Na\end{cases}\end{cases}$		3,020	1,277
	Alkali Violet 6 BO	B		
	Alkali Violet	K		
	Alkali Violet 421	K		
	Alkali Violet AS extra paste	M		
	Alkali Violet AS 24 extra 3 per cent paste	M		

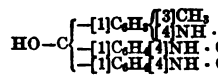
VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
533	ACID VIOLET 7 BN.....1885 Sodium salt of tetramethyl-diphenyl-pararosaniline-disulphonic acid.	M	0	
534	ACID VIOLET 7 B.....1884 Sodium salt of diethyl-dimethyl-diphenyl-triamido-triphenyl-carbinol-disulphonic acid. 	.....	1,705	$369
	Acid Violet 7 B	B		
	Acid Violet 7 B	I		
	Acid Violet 7 B extra	H		
534a	ACID VIOLET (V. M.)	.....	19,960	6,319
	Acid Violet 4 R (S.)	I		
	Acid Violet 10471	I		
	Acid Violet 10475	I		
	Acid Violet 18502	I		
	Acid Violet 2 B extra	H		
	Acid Violet HB	H		
	Acid Violet NFDS 20 per cent	H		
	Acid Violet RX	H		
535	METHYL ALKALI BLUE.....1875 Sodium salt of triphenyl-pararosaniline-sulphonic acid. 	.....	273	217
	Alkali Blue D	A		
	Methyl Alkali Blue	B		
536	ALKALI BLUE.....1892 Mixture of the sodium salts of triphenyl-rosaniline-sulphonic acid and triphenyl-pararosaniline-sulphonic acid. *Rosaniline derivative:* 	.....	286,531	117,365
	Alkali Blue III extra	A		
	Alkali Blue I extra	A		
	Alkali Blue 2 B	A		
	Alkali Blue (for printing ink) 11408	B		
	Alkali Blue 5 BA	B		
	Alkali Blue B B	B		
	Alkali Blue 5 BL	B		
	Alkali Blue N (green shade)	B		
	Alkali Blue N (red shade)	B		
	Alkali Blue DD 55. (Current marks, B, 2 B, 3 B, 4 B, 5 B, 6 B, R, 2 R, 3 R.)	C		
	Alkali Blue 44 D 1658	C		
	Alkali Blue 38 O 1518	C		
	Alkali Blue 38 P 1519	C		
	Alkali Blue 25 Y 1203	C		
	Alkali Blue BK 2	K		
	Alkali Blue 1756	K		
	Alkali Blue 1757	K		
	Alkali Blue AWG	M		
	Alkali Blue AWR	M		
	Alkali Blue AWRG	M		
	Alkali Blue 2 B	M		
	Alkali Blue 4 B	M		
	Alkali Blue MN	M		
	Alkali Blue RM	M		
	Alkali Blue RRM	M		
	Alkali Blue 2 extra	M		
	Alkali Blue 2 extra AS paste	M		
	Alkali Blue IV extra A	M		
	Alkali Blue 7 BOO	GrE		
	Alkali Blue H 5 BKOOO	GrE		
	Alkali Blue HEOOO	GrE		
	Alkali Blue HHRROOO	GrE		

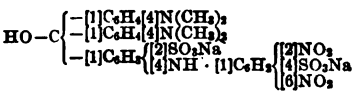
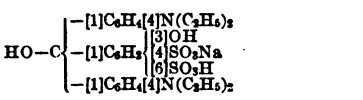
VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
536	ALKALI BLUE—Continued.			
	Alkali Blue 2 B conc	tM		
	Alkali Blue 3 B	tM		
	Alkali Blue 3 R	tM		
	Alkali Blue 3 R conc.	tM		
	Alkali Blue 5 R	tM		
	Alkali Blue 6 R	tM		
	Alkali Blue (for printing ink)	tM		
	Nicholson Blue 4 B	P		
	Alkali Blue (for printing ink)	G		
	Alkali Blue 4 B conc. 125 per cent	I		
	Alkali Blue R (green shade for lakes)	I		
	Alkali Blue 3 B	S		
	Alkali Blue	Q		
536a	ALKALI BRILLIANT BLUE G conc	WD	220	
537	METHYL BLUE FOR SILK 1862 Sodium salt of triphenyl-pararosaniline-disulphonic acid with some trisulphonic acid. $HO-C\{-[1]C_6H_4[4]NH\cdot C_6H_5 \;\; -[1]C_6H_4[4]NH\cdot C_6H_4\cdot SO_3Na \;\; -[1]C_6H_4[4]NH\cdot C_6H_4\cdot SO_3Na$		2,885	$1,517
	Silk Blue B (R. 51; allied to Methyl Blue; preparation)	B		
	Silk Blue 4	By		
	Methyl Blue for silk MLB	M		
	Methyl Blue MBS	GrE		
	Methyl Blue powder	tM		
	Navy Blue F	AW		
	Navy Blue T	AW		
537a	NAVY BLUE (V. M.)		31,499	6,275
	Navy Blue SM	P		
	Navy Blue D	I		
	Navy Blue D	S		
	Navy Blue GR	CV		
	Navy Blue 5 R	CV		
	Dark Navy Blue 2035	Lev		
537b	BLUE (V. M.)		252	140
	Blue for silk RN	P		
	Blue RS	P		
537c	METHYL LYONS BLUE	G	55	
537d	METHYL SILK BLUE (new)	G	176	
538	BRILLIANT COTTON BLUE 1862 Sodium salt of triphenyl-pararosaniline-trisulphonic acid. $HO-C\{-[1]C_6H_4[4]NH\cdot C_6H_4\cdot SO_3Na \;\; -[1]C_6H_4[4]NH\cdot C_6H_4\cdot SO_3Na \;\; -[1]C_6H_4[4]NH\cdot C_6H_4\cdot SO_3Na$		4,276	1,025
	Brilliant Cotton Blue N extra (greenish)	By		
	Brilliant Cotton Blue N extra GR 28231	By		
	Cotton Blue	WD		
	Wool Blue 5 R 15 per cent	H		
538a	COTTON BLUE (V. M.)		45,019	9,809
	Cotton Blue BSJ	GrE		
	Cotton Blue 5190	PK		
	Cotton Blue 424 A	Lev		
	Cotton Blue 122 A	Lev		
	Cotton Blue 258	Lev		
	Cotton Blue 347	Lev		
	Cotton Blue 446	Lev		
	Cotton Blue 511	Lev		
	Cotton Blue 336	Lev		
	Cotton Blue 2095	Lev		
	Cotton Blue OOO	Q		
	Cotton Blue BCB cryst	Q		
538b	WOOL BLUE (V. M.)		960	189
	Wool Blue	Q	240	58
	Wool Blue S	Q	720	131

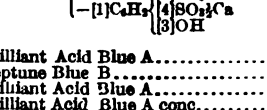
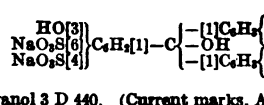
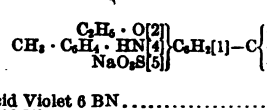
VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
539	**SOLUBLE BLUE**.....1862 Sodium, ammonium or calcium salt of the trisulphonic acid (with some disulphonic acid) of triphenyl-rosaniline and triphenyl-pararosaniline. *Rosaniline derivative, free acid;* 	.....	86,523	$31,093
	China Blue powder.....	A		
	Serge Blue crystals.....	A		
	Water Blue S 2 K.....	A		
	Water Blue 4215 extra.....	A		
	Water Blue 32129.....	A		
	Water Blue 67774 large lumps.....	A		
	Water Blue 67774 large lumps new.....	A		
	Water Blue 67774 large lumps S.....	A		
	Water Blue 67775 large lumps new.....	A		
	Water Blue 105370 lumps.....	A		
	Soluble Blue HA.....	B		
	Soluble Blue IN.....	B		
	Soluble Blue 4 R.....	B		
	Soluble Blue TB.....	B		
	Soluble Blue TL.....	B		
	Soluble Blue 3376 conc.....	B		
	Soluble Blue 14108.....	B		
	Soluble Blue 14710.....	B		
	Soluble Blue 23413.....	B		
	Pure Soluble Blue.....	C		
	Water Blue L 38. (Current marks, B, BS, J, R, RB.).....	C		
	Soluble Blue CX. (Current marks, O, OO, I, II, III, IV, SR, S 2 R.).....	K		
	Soluble Blue C 2.....	K		
	Soluble Blue C 3.....	K		
	Soluble Blue C 5.....	K		
	Soluble Blue 1185.....	K		
	Soluble Blue 1195.....	K		
	Soluble Blue 3205.....	K		
	Soluble Blue 3207.....	K		
	Concentrated Cotton Blue B.....	M		
	Concentrated Cotton Blue 2.....	M		
	Cotton Blue G conc.....	M		
	Guernsey Blue O.....	M		
	Soluble Blue RM.....	M		
	Soluble Blue B conc.....	CG		
	Soluble Blue BCBII.....	CG		
	Soluble Blue AOOOO.....	GrE		
	Soluble Blue BS 3 BB.....	GrE		
	Soluble Blue BSJ.....	GrE		
	Soluble Blue ELOOO.....	GrE		
	Soluble Blue base SBXR.....	GrE		
	Light Blue G.....	tM		
	Soluble Blue (greenest shade) conc. powder.....	tM		
	Soluble Blue extra.....	tM		
	Soluble Blue crystals.....	tM		
	Soluble Blue 5 R extra conc.....	tM		
	Soluble Blue 5 R double conc. powder.....	tM		
	Blue BS.....	P		
	Soluble Blue 3 BS.....	P		
	Soluble Blue BLSE.....	P		
	Soluble Blue extra.....	G		
	Pure Blue AI.....	I		
	Pure Blue DSG powder.....	H		
	Pure Blue DSG crystals.....	H		
	Pure Blue DS extra.....	H		
	Silk Blue B.....	Q		
	Silk Blue 4 R.....	Q		
	Water Blue MX.....	Q		
539a	**SILK BLUE (V. M.)**.....	.....	3,307	1,243
	Silk Blue BJBNOO.....	GrE		
	Silk Blue BS 3 BB.....	GrE		
	Silk Blue BTB.....	GrE		
	Silk Blue BT 5 BOO.....	GrE		
	Silk Blue BTR.....	GrE		
	Silk Blue.....	tM		

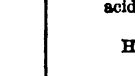
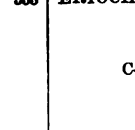
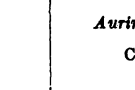
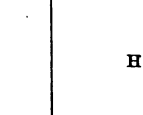
VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
539b	PURE BLUE RT	BK	1,102	
539c	SOLUBLE NAVY BLUE crystals	G	220	
540	PACIFIC BLUE ..... 1896 Sulphonation of the product obtained by the action of diamido-diphenyl-methane upon pararosaniline, in the presence of benzoic acid.	H	0	
541	BRILLIANT DIANIL BLUE 6 G ..... 1883 Sulphonation of β-naphthyl-rosaniline.	M	0	
542	AGALMA GREEN B ..... 1906 Sodium salt of di nitro-sulpho-phenyl-tetramethyl-pararosaniline-sulphonic acid. 	B	2,294	
	5. Amido-oxy derivatives.			
543	PATENT BLUE ..... 1888 Calcium, magnesium or sodium salt of the disulphonic acid of m-oxy-tetra-ethyl-diamido-triphenyl-carbinol. 	.....	114,631	$49,965
	Patent Blue B	A		
	Neptune Blue BG	B		
	Neptune Blue BG extra	B		
	Neptune Blue BGN	B		
	Neptune Blue BGX	B		
	Brilliant Acid Blue V	By		
	Patent Blue B	M		
	Patent Blue L	M		
	Patent Marine Blue	M		
	Patent Blue LE	M		
	Patent Blue NO	M		
	Patent Blue V 15 per cent red	M		
	Patent Blue V new (S.; a mixture of Patent Blue B (M) with Acid Violet N)	M		
	Patent Blue V	tM		
	Patent Blue V	G		
543a	PATENT BLUE (V. M.)	.....	9,500	2,800
	Patent Blue JI 15 per cent red	M		
	Patent Blue JI	M		
	Patent Blue J 3	M		
	Patent Blue J 3	M		
	Patent Blue WE (S.; Kal. 1912)	M		
543b	PATENT MARINE BLUE LER (S. 1908; a modification of Patent Blue)	M	51,500	
543c	ACID BLUE (V. M.)	.....	14,467	4,916
	Acid Blue	AW		
	Acid Blue E	AW		
	Acid Blue R	AW		
	Acid Blue V	AW		
	Acid Blue Y	AW		
	Acid B ue BA	Q		
	Acid Blue C	Q		
	Acid Blue DRS	Q		
	Acid Blue PN	Q		
	Acid Blue 5 R	Q		
543d	TETRA CYANOLE (V. M.)	.....	6,130	2,105
	Tetra Cyanole 27 G 1236. (Current marks, A, SF, V.)	C		
	Tetra Cyanole 21 K 1089	C		
	Tetra Cyanole 19 V 1050	C		

VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
544	CYANINE B.....1891	.....	8,696	$3,300
	Product of the oxidation of Patent Blue by means of chromic acid, etc., presumably accompanied by a loss of one or more ethyl groups.			
	Cyanine B	A		
	Cyanine BF	A		
	Cyanine B	M		
544a	CYANINE BLUE extra	CV	700	
545	PATENT BLUE A.....1888	.....	40,848	10,220
	Calcium salt of the disulphonic acid of m-oxy-diethyl-dibenzyl-diamido-triphenyl-carbinol.			
				
	Brilliant Acid Blue A	A		
	Neptune Blue B	B		
	Brilliant Acid Blue A	By		
	Brilliant Acid Blue A conc	By		
	Patent Blue A extra	K		
	Patent Blue A	M		
	Patent Blue A 15 per cent red	M		
	Patent Blue AE extra	M		
	Brilliant Patent Blue A (S. 1913)	M		
545a	NEPTUNE BLUE (V. M.)	.....	10,765	2,365
	Neptune Blue BR extra	B		
	Neptune Blue BTE	B		
	Neptune Blue R (S.; Kal. 1908)	B		
545b	NEW PATENT BLUE GA (S. 1899; R. 51; preparation)	By	2,011	
545c	BRILLIANT ACID BLUE (V. M.)	.....	10,120	3,595
	Brilliant Acid Blue B (S.; Kal. 1911)	By		
	Brilliant Acid Blue B 28033	By		
	Brilliant Acid Blue B conc. 28044	By		
	Brilliant Acid Blue FF (S.; Kal. 1910)	By		
	Brilliant Acid Blue L 25097	By		
	Brilliant Acid Blue 25601	S		
546	CYANOL.....1891	.....	40,615	15,797
	Sodium salt of m-oxy-diethyl-diamido-phenyl-ditolyl-carbinol-disulphonic acid.			
				
	Cyanol 3 D 440. (Current marks, AB, BB, C, FF, GG, II.)	C		
	Cyanol 10 Q 8.0	C		
	Cyanol 3 Z	C		
	Cyanol ZZZ 654	C		
547	KETONE BLUE 4 BN.....1890	M	0	
	Sulphonic acid of ethoxy-trimethyl-phenyl-triamido-triphenyl-carbinol.			
548	ACID VIOLET 6 BN.....1891	.....	6,861	2,169
	Sodium salt of o-ethoxy-tolyl-tetramethyl-triamido-triphenyl-carbinol-trisulphonic acid.			
				
	Acid Violet 6 BN	B		
	Acid Violet 6 BN	WD		
	Acid Violet 6 BS	WD		
	Acid Violet 6 BN 250 per cent	I		
	Acid Violet 6 B conc	H		

VII. TRIPHENYLMETHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
549	CHROME VIOLET.....1891 Tetramethyl-diamido-oxy-triphenyl-carbinol-m-carboxylic acid. 	By	0	
549a	BRILLIANT CHROME VIOLET BD.....	By	51	
550	CHROME BORDEAUX.....1891 Tetramethyl-triamido-oxy-triphenyl-carbinol-m-carboxylic acid.	By	0	
	4. Oxy derivatives.			
551	ERIOCHROME AZUROL BC.....1906 Product of the condensation of an ortho-halogen derivative of benzaldehyde with o-cresotinic acid, followed by oxidation.	G	21,060	
552	CHROMAL BLUE.....1906 Product of the condensation of an ortho-derivative of nitro-benzaldehyde with o-cresotinic acid, followed by oxidation.	.....	1,235	$4,418
	Chromal Blue G conc.....	G		
	Chromal Blue GC (for printing).....	G		
552a	CHROMAL DARK BLUE K.....	G	100	
553	ERIOCHROME CYANINE RC.....1906 	G	2,249	
554	CHROME AZUROL S conc.....1906 Product of the condensation of an ortho-halogen derivative of sulpho-benzaldehyde with o-cresotinic acid, followed by oxidation.	G	2,469	
555	AURINE.....1834 Mixture of aurine (trioxy-triphenyl-carbinol), oxydized aurine, methyl-aurine, and pseudorosolic acid (coralline-phthalein). The pseudorosolic acid forms the chief constituent of commercial aurine. 	B	784	
556	RED CORALLINE..... Product of the action of ammonia upon aurine. It is probably a combination of pararosaniline with p-rosolic acid.	.....	0	
557	CHROME VIOLET.....1889 Sodium salt of aurine-tricarboxylic acid. 	G	220	
	B. DIPHENYL-NAPHTHYL-METHANE COLORS.			
558	VICTORIA BLUE R.....1892 Hydrochloride of ethyl-tetramethyl-triamido-α-naphthyl-diphenyl-carbinol. 	.....	4,171	$33
	Victoria Blue R.....	B		
	New Victoria Blue B.....	By		

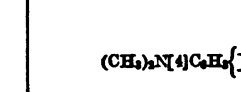
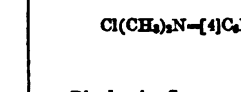
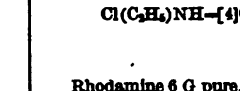
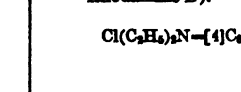
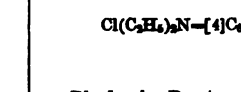
VII. DIPHENYL-NAPHTHYL-METHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
559	VICTORIA BLUE B.....1883	.....	109,687	$33,117
	Hydrochloride of phenyl-tetramethyl-triamido-diphenyl-α-naphthyl-carbinol.			
	$C\begin{cases}-[1]C_6H_4[4]-N(CH_3)_2Cl\\-[1]C_6H_4[4]N(CH_3)_2\\-[1]C_{10}H_6[4]NH(C_6H_5)\end{cases}$			
	Victoria Blue B base.....	B		
	Victoria Blue B conc.....	B		
	Victoria Blue B conc. (free from dextrine).....	B		
	Victoria Blue BE.....	B		
	Victoria Blue BS.....	B		
	Victoria Blue BSS.....	B		
	Victoria Pure Blue B (S. 1904).....	B		
	Victoria Blue B base 14413.....	K		
	Victoria Blue B base.....	K		
	Victoria Blue B.....	M		
	Silk Blue B.....	BK		
	Silk Blue 5770.....	BK		
	Victoria Blue B conc.....	BK		
	Victoria Blue B.....	tM		
	Victoria Blue B extra.....	tM		
	Victoria Blue B conc.....	tM		
	Victoria Blue B conc. SAD.....	tM		
	Victoria Blue B.....	I		
	Victoria Blue B conc.....	I		
	Victoria Blue B conc. 6½ : 10.....	S		
559a	VICTORIA BLUE BASE.....	.....	4,745	2,404
	Victoria Blue Base.....	S		
	Victoria Blue Base 61272.....	H		
559b	VICTORIA BRILLIANT BLUE.....	.....	13,397	4,382
	Victoria Brilliant Blue B (S. 1904).....	M		
	Brilliant Victoria Blue RB 2007 (S. 1907).....	I		
560	NIGHT BLUE.....	.....	351	614
	Hydrochloride of p-tolyl-tetraethyl-triamido-diphenyl-α-naphthyl-carbinol.			
	$C\begin{cases}-[1]C_6H_4[4]-N(C_2H_5)_2Cl\\-[1]C_6H_4[4]N(C_2H_5)_2\\-[1]C_{10}H_6[4]NH(C_7H_7)\end{cases}$			
	Night Blue.....	B		
	Night Blue.....	I		
561	ACID VIOLET 5 BNS.....1895	S	0	
	Sulphonic acid of β-naphthyl-penta-alkyl-rosaniline.			
561a	ACID VIOLET (V. M.).....	.....	1,896	677
	Acid Violet D conc.....	S		
	Acid Violet S.....	S		
	Acid Violet 26449.....	S		
562	FAST ACID BLUE.....1893	.....	7,725	3,471
	Product of the condensation of tetramethyl-diamido-benzhydrol with 1-naphthylamine-2-sulphonic acid, or its sulpho derivatives, with subsequent oxidation.			
	Fast Acid Blue B.....	By		
	Intensive Blue B.....	By		
562a	WOOL BLUE N.....	.....	8,043	2,399
	Wool Blue N extra.....	By		
	Brilliant Wool Blue B extra.....	By		
562b	WOOL BLUE (V. M.).....	.....	10,443	4,844
	Wool Blue R extra.....	By		
	Wool Blue SR extra.....	By		
	Wool Blue B.....	AW		
	Wool Blue B extra strong.....	AW		
	Wool Blue SB extra strong.....	AW		
	Wool Blue M.....	AW		
562c	BRILLIANT WOOL BLUE (V. M.).....	.....	6,579	2,318
	Brilliant Wool Blue FFR extra (S.; Kal. 1912).....	By		
	Brilliant Wool Blue G extra (S. 1904).....	By		
562d	FAST ACID BLUE 3 B.....	Q	441	179

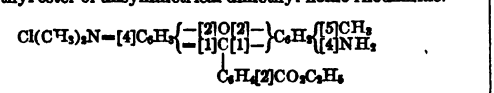
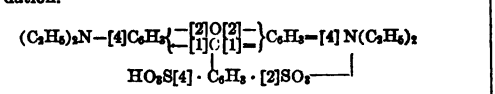
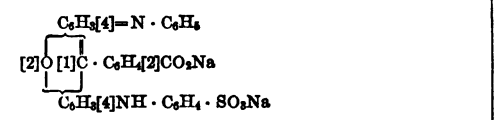
VII. DIPHENYL-NAPHTHYL-METHANE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
563	NEW PATENT BLUE B.....1897 Calcium, magnesium or sodium salt of the disulphonic acid of tetramethyl-diphenyl-naphthyl-carbinol. $HO-C\begin{cases}-[1]C_6H_4[4]N(CH_3)_2\\-[1]C_6H_4[4]N(CH_3)_2\\-[1]C_{10}H_5\begin{cases}[2]SO_3Na\\[6]SO_3Na\end{cases}\end{cases}$	By	595	
564	NAPHTHALENE GREEN.....1899 Product of the condensation of tetramethyl-diamido-benzhydrol with naphthalene-disulphonic acid, and subsequent oxidation.	.....	22,144	$5,904
	Naphthalene Green conc	M		
	Naphthalene Green V	M		
	Erio Green N conc	G		
565	ACID BLUE B.....1895 Product of the sulphonation of diphenyl-naphthyl-methanes.	.....	1,398	824
	Wool Blue G extra	A		
	Acid Blue B	S		
565a	WOOL BLUE (V. M.)	.....	173,904	13,406
	Wool Blue 2 B (S.; derivation).....1898	A		
	Wool Blue 2 B strong 50:100	A		
	Wool Blue 5 B	A		
	Wool Blue 2 BX	A		
	Wool Blue R	A		
	Wool Blue RX	A		
	Wool Blue 1092	A		
	Wool Blue 2030	Lev		
	Wool Blue 2051	Lev		
	Wool Blue 2062	Lev		
	Wool Blue 2084	Lev		
	Wool Blue 2095	Lev		
	Wool Blue 3006	Lev		
	Wool Blue 3050	Lev		
565b	ACID BLUE (V. M.)	.....	5,121	2,263
	Acid Blue 7 B	S		
	Acid Blue EX	S		
	Acid Blue R	S		
	Acid Blue 22244	S		
	Acid Blue 23579	S		
566	WOOL GREEN S.....1883 Sodium salt of tetramethyl-diamido-diphenyl-β-oxy-naphthyl-carbinol-disulphonic acid. $HO\cdot C\begin{cases}[1]C_6H_4[4]N(CH_3)_2\\[1]C_6H_4[4]N(CH_3)_2\\[1]C_{10}H_5\begin{cases}[2]OH\\[(SO_3Na)_2\end{cases}\end{cases}$	.....	33,863	13,536
	Wool Green S extra conc. X	B		
	Wool Green S extra conc	B		
	Wool Green BS	By		
	Wool Green BS extra	By		
	Wool Green BS conc. 27275	By		
	Wool Green BS	BK		
	Wool Green S 250 per cent	CV		
	Wool Green B	Q		
566a	WOOL GREEN (V. M.)	.....	7,721	3,049
	Wool Green 16437	L		
	Wool Green extra conc	tM		
	Wool Green SAK extra conc 400 per cent	I		
566b	CYANOL GREEN (V. M.)	.....	10,988	2,193
	Cyanol Green 4 R 671. (Current marks, B, 5 G, S.)	C		
	Cyanol Green 41 U	C		
	Cyanol Green 41 U 1599	C		
	Cyanol Green 41 V 1600	C		
	Cyanol Green 8 W 776	C		
566c	CYANOL FAST GREEN (V. M.)	.....	7,501	2,435
	Cyanol Fast Green G (S. 1903)	C		
	Cyanol Fast Green 69 A 2289	C		
567	CHROME BLUE.....1890 Tetramethyl-diamido-oxy-diphenyl-naphthyl-carbinol-carboxylic acid.	By	0	

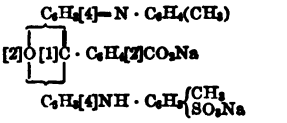
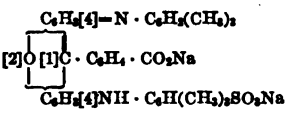
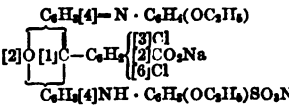
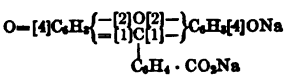
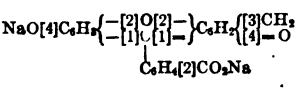
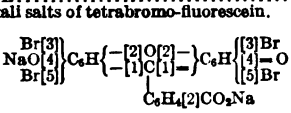
VIII. XANTHONE COLORING MATTERS.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
	A. AMIDO COMPOUNDS (FLUORIN COLORS).			
	1. Pyronines.			
568	PYRONINE G.....1889 Tetramethyl-diamido-xanthenyl chloride. 	L	0	
569	ACRIDINE RED B.....1891 Oxidation of Pyronine G.	L	0	
	2. Succineines.			
570	RHODAMINE S.....1888 Hydrochloride of dimethyl-m-amido-phenol-succineine. 	.....	600	$520
	Rhodamine S	B		
	Rhodamine S	I		
	3. Rhodamines.			
571	RHODAMINE 6 G.....1892 Ethyl ester of symmetrical diethyl-rhodamine (obtained from ethyl-m-amido-phenol and phthalic anhydride). 	.....	37,460	18,495
	Rhodamine 6 G pure	B		
	Rhodamine 6 G extra pure	B		
	Rhodamine 6 G extra	B		
	Rhodamine 6 G extra	I		
571a	BRILLIANT PINK	S	55	
572	RHODAMINE G.....1891 Chiefly triethyl-rhodamine (removal of one ethyl group from Rhodamine B). 	B	500	
572a	RHODAMINE (V. M.)	.....	2,143	1,588
	Rhodamine AL	B		
	Rhodamine R	I		
	Rhodamine 5 G	S		
	Rhodamine 6302	Q		
573	RHODAMINE B.....1887 Hydrochloride of diethyl-m-amido-phenol-phthalein. 	.....	58,339	23,777
	Rhodamine B extra	B		
	Rhodamine B	B		
	Rhodamine B extra base	B		
	Rhodamine B	By		
	Rhodamine B extra	By		
	Rhodamine B extra	K		
	Rhodamine B extra	AW		
	Rhodamine B extra	I		
	Rhodamine B extra 100 per cent	I		

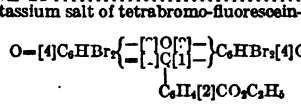
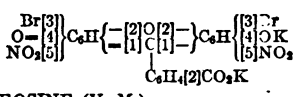
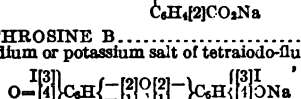
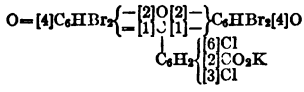
VIII. XANTHONE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
573	RHODAMINE B—Continued.			
	Rhodamine B extra	S		
	Rhodamine B conc	S		
	Rhodamine B 2	S		
	Rhodamine BN	Q		
573a	CARTHAMINE		1,015	$346
	Carthamine 6 A extra	tM		
	Carthamine B extra (S.)	tM		
574	RHODAMINE 3 B.....1891 Ethyl ester of Rhodamine B.	I	0	
575	RHODINE 12 GM.....1900 Ethyl ester of dimethyl-amido-methoxy-rhodamine.	I	0	
576	RHODAMINE 3 G.....1895 Ethyl ester of unsymmetrical dimethyl-homo-rhodamine. 		16,940	6,858
	Rhodamine 3 G	B		
	Rhodamine 3 G extra	B		
	Irisamine	C		
576a	RHODAMINE 5 G (S.; Kal. 1905; R. 45)	By	1,671	
576b	RHODAMINE SCARLET G (S.; Kal. 1905; R. 45).....1904	By	957	
577	RHODINE 2 G.....1895 Ethyl ester of dimethyl-ethyl-rhodamine.	I	0	
578	RHODAMINE 12 GF.....1898 Action of dimethyl-amido-oxy-benzoylbenzoic acid upon resorcin, followed by etherification of the product, and treatment with formaldehyde.	I	0	
579	XYLENE RED.....1903 Product of the condensation of benzaldehyde-disulphonic acid with (2 mols.) diethyl-m-amido-phenol, followed by oxidation. 		1,698	1,296
	Xylene Red B	S		
	Xylene Red B conc	S		
	Xylene Red B extra	S		
580	FAST ACID VIOLET B.....1888 Sodium salt of diphenyl-m-amido-phenolphthalein-sulphonic acid. 	M	877	
580a	FAST ACID VIOLET (V. M.)		19,811	13,975
	Fast Acid Violet 44 O 1608	C		
	Fast Acid Violet R (S.; Kal. 1905)	M		
	Fast Acid Violet RBE (S.; Kal. 1905)	M		
	Fast Acid Violet RGE (S.; Kal. 1905)	M		
	Fast Acid Violet	AW		
	Fast Acid Violet RX	H		
581	FAST ACID PHLOXINE A.....1898 Various rhodamine-sulphonic acids obtained by the action of oleum upon rhodamine.	M	100	
581a	FAST ACID MAGENTA G (S.; a sulphonic acid of rhodamine)	M	500	
581b	FAST ACID RED A (S.; phenyl-rhodamine-sulphonic acid).1891	M	50	

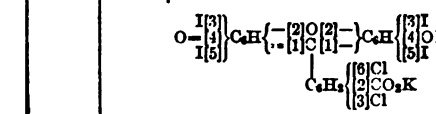
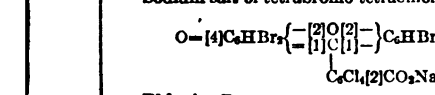
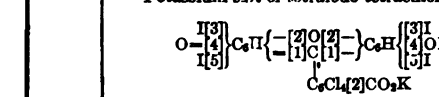
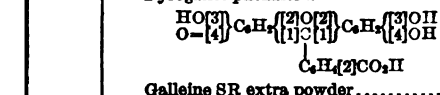
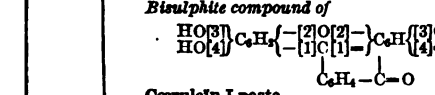
VIII. XANTHONE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
582	FAST ACID VIOLET A 2 R.....1888 Sodium salt of di-o-tolyl-m-amido-phenolphthalein-sulphonic acid. 	M	875	
583	ACID ROSAMINE A.....1893 Sodium salt of di-mesidyl-m-amido-phenolphthalein-sulphonic acid. 	M	50	
584	FAST ACID BLUE R.....1889 Sodium salt of di-p-ethoxy-phenyl-m-amido-phenol-dichloro-phthalein-sulphonic acid. 	M	1,502	
584a	FAST ACID BLUE RH (S.; Kal. 1911).....	II	2,520	
	B. OXY COMPOUNDS (FLUORON COLORS).			
	1. Oxy-phthaleins.			
585	URANINE.....1871 Sodium or potassium salt of fluorescein. 	.....	2,273	$1,179
	Uranine.....	A		
	Uranine A powder.....	B		
	Uranine (potassium salt).....	M		
	Uranine N lumps.....	M		
586	CHRYSOLINE conc.....1877 Sodium salt of benzyl-fluorescein. 	G		
587	EOSINE.....1874 Alkali salts of tetrabromo-fluorescein. 	.....	35,511	13,183
	Eosine extra.....	K		
	Eosine extra AG.....	M		
	Eosine extra A 3 G.....	M		
	Eosine extra BB.....	M		
	Eosine 19246.....	CJ		
	Eosine 19247.....	CJ		
	Eosine 19805.....	CJ		
	Eosine 20827.....	CJ		
	Eosine 20970.....	CJ		
	Eosine extra (yellowish) 701.....	G		

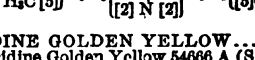
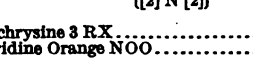
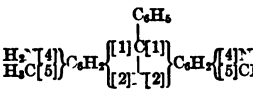
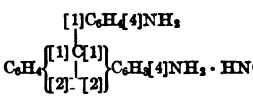
VIII. XANTHONE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
587a	EOSINE (V. M.)		21,017	$7,991
	Eosine A	B		
	Eosine AG	B		
	Eosine CA	B		
	Eosine W extra	B		
	Eosine A conc. 27020	By		
	Eosine 1104. (Current marks, 10 B, GGF, GGG, J.)	C		
	Eosine 62 W 2132	C		
	Eosine 62 X 2133	C		
	Eosine 61 Z 2135	C		
	Eosine 62 Z 2135	C		
587b	BROMOFLUORESCEIC ACID		38,000	18,397
	Bromofluoresceic Acid Crystals (S.; eosine color for lakes)	M		
	Bromofluoresceic Acid A 3 G	M		
	Bromofluoresceic Acid BA conc	M		
	Bromofluoresceic Acid BL (blue shade)	M		
588	METHYL EOSINE.....1874 Potassium salt of tetrabromo-fluorescein-methyl ester.	B	0	
589	EOSINE SP.....1874 Potassium salt of tetrabromo-fluorescein-ethyl ester.	B	2,315	
				
590	EOSINE BNL.....1875 Potassium or sodium salt of dibromo-dinitro-fluorescein.	B	201	
				
590a	ACID EOSINE (V. M.)		17,499	7,288
	Acid Eosine CA	B		
	Acid Eosine G	B		
	Acid Eosine L new	B		
	Acid Eosine L 27314	B		
	Acid Eosine LB 18909	B		
	Acid Eosine SP	B		
	Acid Eosine 1032	K		
	Acid Eosine 3 G	CJ		
	Acid Eosine 13389	CJ		
	X L Acid Eosine 5 B	H		
590b	FAST EOSINE L paste	B	2,443	
591	ERYTHROSINE G.....1875 Sodium or potassium salt of diiodo-fluorescein.	B	99	
				
592	ERYTHROSINE B.....1876 Sodium or potassium salt of tetraiodo-fluorescein.		4,350	9,189
	Erythrosine extra	M		
	Erythrosine A extra pure	M		
	Erythrosine B extra pure	M		
593	PHLOXINE P.....1875 Alkaline salts of tetrabromo-dichloro-fluorescein.		2,244	4,125
				
	Phloxine P	B		
	Phloxine	DH		

VIII. XANTHONE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
594	CYANOSINE SPIRIT SOLUBLE....1876 Alkaline salt of tetrabromo-dichloro-fluorescein-methyl ester.	M	0	
595	ROSE BENGALE..... Alkaline salt of tetraiodo-dichloro-fluorescein. 	.....	2,277	$4,151
	Rose Benglale NTO.....	B		
	Rose Bengale N.....	C		
	Rose Benga'e double.....	DH		
	Rose Bengale double.....	S		
596	PHLOXINE.....1882 Sodium salt of tetrabromo-tetrachloro-fluorescein. 	.....	1,020	1,039
	Phloxine B.....	M		
	Phloxine GA extra.....	M		
	Phloxine HM.....	M		
597	ROSE BENGALE B.....1882 Potassium salt of tetraiodo-tetrachloro-fluorescein. 	.....	1,354	2,469
	Rose Bengale B.....	B		
	Rose Bengale B conc.....	K		
	Rose Bengale.....	M		
	Rose Bengale B.....	M		
	Rose Bengale double.....	G		
598	CYANOSINE B.....1882 Sodium salt of tetrabromo-tetrachloro-fluorescein-ethyl ester.	I	0	
599	GALLEINE.....1871 Pyrogallol-phthalein. 	.....	15,404	8,817
	Galleine SR extra powder.....	B		
	Galleine SW extra.....	B		
	Galleine W conc.....	B		
	Galleine powder.....	By		
	Alizarin Violet 68 T 2282.....	C		
	Alizarin Violet 68 U 2283.....	C		
	Alizarin Violet D I (R. 58).....	M		
	Alizarin Violet N.....	M		
	Anthracene Violet 18610.....	I		
	Alizarin Violet BL powder.....	Q		
	2. Anthra-Oxy-Phthaleins.			
600	CŒRULEÏN B.....1876 Action of sulphuric acid upon fluorescein.	M	0	
601	CŒRULEÏN S.....1871	.....	3,404	921
	Bisulphite compound of 			
	Cœrulein I paste.....	B		
	Cœrulein S powder.....	B		
	Cœrulein S paste.....	B		

IX. ACRIDINE COLORING MATTERS.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
602	ACRIDINE YELLOW conc. ..... 1889 Hydrochloride of diamido-dimethyl-acridine. 	L	220	
602a	ACRIDINE GOLDEN YELLOW	.....	1,693	$1,173
	Acridine Golden Yellow 54666 A (S.; Kal. 1905)	L		
	Acridine Golden Yellow	G		
603	ACRIDINE ORANGE ..... 1889 Zinc double chloride of tetramethyl-diamido-acridine. *Hydrochloride:* 	.....	741	759
	Euchrysine 3 RX	B		
	Acridine Orange NOO	L		
603a	RHODULINE ORANGE	.....	1,595	533
	Rhoduline Orange N (S.; Kal. 1907)	By		
	Rhoduline Orange NO (S.)	By		
604	ACRIDINE ORANGE R ..... 1889 Salt of tetramethyl-diamido-phenyl-acridine.	L	0	
605	BENZOFLAVINE O ..... 1887 Hydrochloride of diamido-phenyl-dimethyl-acridine. 	GrE	600	
606	PHOSPHINE ..... 1862 Nitrate of chrysaniline (unsymmetric diamido-phenyl-acridine) and homologues. 	.....	101,858	30,442
	Phosphine 3 R	A		
	Philadelphia Yellow 2 G	A		
	Canelle AL (S. H. IV, 694)	B		
	Phosphine 54 D 1908. (Current mar., IIA.)	C		
	Phosphine 55 M 1941	C		
	Phosphine GO	K		
	Leather Yellow G	M		
	Leather Yellow O	M		
	Phosphine LM	M		
	Phosphine O	M		
	Leather Yellow TL	BK		
	Leather Yellow G	CG		
	Leather Yellow 2 G	CG		
	Leather Yellow 3 G	CG		
	Leather Yellow A	GrE		
	Leather Yellow G	GrE		
	Leather Yellow GC	GrE		
	Leather Yellow GS	GrE		
	Leather Yellow M	GrE		
	Phosphine A	GrE		
	Phosphine LB	GrE		
	Phosphine PHLB	GrE		
	Leather Yellow 5828a	L		
	Leather Yellow TBR	tM		
	Leather Yellow P	tM		
	Phosphine GG extra conc. (Kal. 1914)	tM		
	Phosphine AR extra conc. (Kal. 1914)	tM		
	Vitoline Yellow 5 G conc.	tM		
	Vitoline Yellow 5 G extra	tM		
	Vitoline Yellow R	tM		
	Leather Yellow GN	AW		
	Phosphine 12901	P		

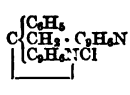
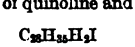
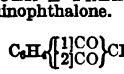
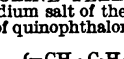
IX. ACRIDINE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
606	PHOSPHINE—Continued.			
	Xanthine I	P		
	Xanthine CJB	I		
	Special Phosphine G	S		
	Phosphine RS	H		
	Leather Yellow FG	Q		
	Leather Yellow FU	Q		
	Leather Yellow R extra	Q		
	Leather Yellow TG	Q		
606a	AUROPHOSPHINE		3,799	$1,330
	Aurophosphine G (S.)	A		
	Aurophosphine 4 G (S.)	A		
606b	BRILLIANT PHOSPHINE		1,333	557
	Brilliant Phosphine	I		
	Brilliant Phosphine 5 G	I		
606c	PATENT PHOSPHINE		28,627	17,881
	Patent Phosphine G 300 per cent	I		
	Patent Phosphine M 300 per cent	I		
	Patent Phosphine R	I		
	Patent Phosphine 19332	I		
606d	ACID PHOSPHINE R	CR	4,584	
606e	CORIPHOSPHINE		2,194	706
	Coriphosphine OS (S. 1900; R. 46)	By		
	Coriphosphine OX extra	By		
606f	NANKIN powder (Kal. 1914)	tM	1,677	
606g	LEATHER FLAVINE		24,153	8,235
	Leather Flavine 9118	I		
	Leather Flavine 9118	S		
607	RHEONINE 1894 Hydrochloride of tetramethyl-triamido-phenyl-acridine. $(CH_3)_2N[4]C_6H_3\begin{cases}[1]C[1]\\ \\ [2]N[2]\end{cases}C_6H_3[4]NH_2HCl$ $C_6H_4[4]N(CH_3)_2$		19,704	5,261
	Rheonine AL	B		
	Rheonine GD	B		
608	EUCHRYSINE 1906 (Composition unknown.)		15,403	5,343
	Euchrysine RR	B		
	Euchrysine GG	B		
	Euchrysine GNX	B		
	Euchrysine GRNT	B		
	Euchrysine NX	B		
	Euchrysine RRD	B		
	Euchrysine RT	B		
609	HOMOPHOSPHINE OO 1898 (Composition unknown.)	L	772	
609a	AURACINE G (S. 1902) (Composition unknown.)	By	51	
609b	DIAMOND PHOSPHINE (Composition unknown.)		30,336	5,897
	Diamond Phosphine 28 A 1255 (S.; Kal. 1907). (Current marks, D, GG, PG, R.)	C		
	Diamond Phosphine 40 H 1562	C		
	Diamond Phosphine 27 S 1247	C		
	Diamond Phosphine 27 T 1248	C		
609c	AUROFLAVINE KR (S.; Kal. 1908) (Composition unknown.)	M	625	
609d	FLAVOPHOSPHINE (Composition unknown.)		6,000	1,566
	Flavophosphine G conc. (S.; Kal. 1905)	M		
	Flavophosphine 4 G conc	M		
	Flavophosphine R conc. new	M		
	Flavophosphine R conc	M		

IX. ACRIDINE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
609e	CORIOFLAVINE (Composition unknown.)		40,343	$13,488
	Corioflavine G (Kal. 1908)	GrE		
	Corioflavine GG (Kal. 1908)	GrE		
	Corioflavine GOOO (Kal. 1908)	GrE		
	Corioflavine R (Kal. 1908)	GrE		

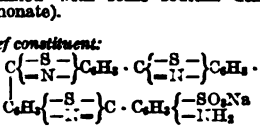
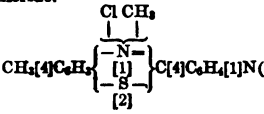
X. QUINOLINE COLORING MATTERS.

610	QUINOLINE RED ..... 1882 	A	0	
611	QUINOLINE BLUE ..... 1856 Action of caustic alkalies on the product of the reaction between amyl iodide and a mixture of equivalent quantities of quinoline and lepidine (= γ-methyl-quinoline). 	G	0	
612	QUINOLINE YELLOW, spirit soluble ..... 1882 Quinophthalone. 	.....	79,553	$28,170
	Quinoline Yellow spirit soluble	A		
	Quinoline Yellow	B		
	Quinoline Yellow extra	B		
	Quinoline Yellow P	B		
	Quinoline Yellow 9272, 174 per cent	I		
	Quinoline Yellow	S		
	Quinoline Yellow conc. 5:10	S		
	Quinoline Yellow conc. double	S		
613	QUINOLINE YELLOW, water soluble ..... 1882 Sodium salt of the sulphonic acids (chiefly di-sulphonic acid) of quinophthalone. 	.....	15,324	7,672
	Quinoline Yellow water soluble	A		
	Quinoline Yellow water soluble, extra strong 50:100	A		
	Quinoline Yellow extra	By		
	Quinoline Yellow KT extra conc. (S.; Kal. 1911)	By		
	Quinoline Yellow N extra	By		
	Quinoline Yellow	C		
	Quinoline Yellow extra	M		
	Quinoline Yellow O	M		
	Quinoline Yellow	AW		
	Quinoline Yellow	I		
613a	PINACHROME (S.). (A quinoline dye used for photographic purposes.)	M	30	

XI. THIOBENZENYL COLORING MATTERS.

614	CHROMINE G ..... 1888 Fusion of equal molecules of sulphur and dehydro-thio-toluidine; methylation and sulphonation of the product. $C_{28}H_{18}N_4S_3$	K	0	
614a	CHROMINE RR powder	S	1,001	
615	THIOFLAVINE S ..... 1888 Sulphonation of methylated primuline bases.	.....	4,948	$3,333
	Thioflavine S	S		
	Thioflavine 010	K		
	Thioflavine 654	K		

XI. THIOBENZENYL COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
616	**PRIMULINE**.....1887 Sodium salt of the mono-sulphonic acids of the dehydrothionated condensation products of dehydro-thio-toluidine, (mixed with some sodium dehydro-thio-p-toluidine-sulphonate). *Chief constituent:* 	.....	56,212	$3,478
	Primuline	A		
	Primuline A	B		
	Primuline	C		
	Primuline 4502	K		
	Primuline A	M		
	Primuline	GrE		
	Polychromine AC	G		
	New Polychromine FB	G		
	Primuline 19301	I		
	Primuline 1329	ClCo		
616a	**PRIMULINE YELLOW**.....	.....	11,764	1,346
	Primuline Yellow superfine	By		
	Primuline Yellow	AW		
617	**COLUMBIA YELLOW**.....1890 Oxidation products of dehydro-thio-toluidine-sulphonic acid, or of the latter and Primuline together.	.....	86,090	10,185
	Columbia Yellow	A		
	Columbia Yellow 50:100	A		
	Chloramine Yellow FF	By		
	Chloramine Yellow GG	By		
	Chloramine Yellow HW	By		
	Chloramine Yellow M	By		
	Chloramine Yellow M 27024	By		
	Chloramine Yellow RC	By		
	Chloramine Yellow extra	By		
	Chloramine Yellow DB 27993	By		
	Chloramine Fast Yellow B	By		
	Triazol Fast Yellow 2 GOOOO	GrE		
	Chloramine Yellow G conc. 5:10	S		
	Chloramine Yellow M	S		
	Oxyphenine A	ClCo		
	Oxyphenine C	ClCo		
	Oxyphenine GG	ClCo		
	Oxyphenine R	ClCo		
617a	**DIAMINE FAST YELLOW**.....	.....	88,688	12,972
	Diamine Fast Yellow 30 F 1310 (S.; Kal. 1905, 1908; S. H. IV, 1080, 1082, 1526, 1527). (Current marks, A, AR, AGG, B, C, FF, 3 G, M.)	C		
	Diamine Fast Yellow GG 415	C		
	Diamine Fast Yellow NN 421	C		
	Diamine Fast Yellow 21 R 1096	C		
	Diamine Fast Yellow 24 T 1173	C		
	Diamine Fast Yellow 10 Z 829	C		
617b	**DIRECT YELLOW TO**.....	I	4,520	
617c	**DIRECT FAST YELLOW**.....	.....	1,199	310
	Direct Fast Yellow OO	GrE		
	Direct Fast Yellow R	GrE		
	Direct Fast Yellow A 308 LQD	tM		
618	**THIOFLAVINE T**.....1888 Hydrochloride of dimethyl-dehydro-thio-toluidine-methylo-chloride. 	.....	31,714	17,622
	Thioflavine 31 C 1332. (Current marks, S, T, TCN.)	C		
	Thioflavine P 184	C		
	Thioflavine R 185	C		
	Methylene Yellow H	M		
618a	**RHODULINE YELLOW 6 G (S.)**.....1904	By	3,510	

XII. INDOPHENOLS.

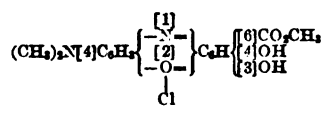
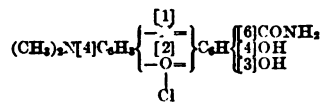
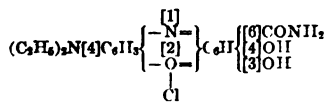
No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
619	INDOPHENOL.....1881 Oxidation product of p-amido-dimethyl-aniline and α-naphthol. $N\left\{\begin{matrix}-[1]C_6H_4[4]N(CH_3)_2\\ =[1]C_{10}H_6[4]=O\end{matrix}\right.$	DH	0	

XIII. OXAZINE AND THIAZINE COLORING MATTERS.

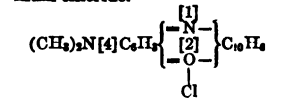
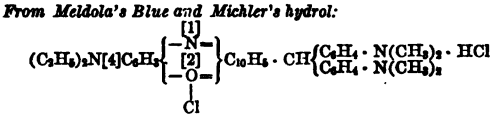
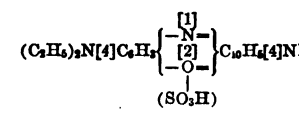
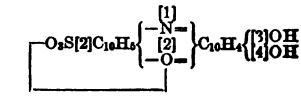
A. OXAZINE COLORS.

620	CAPRI BLUE GON.....1890 Zinc double chloride of dimethyl-diethyl-diamido-toluphenoxazonium chloride. $(CH_3)_2N[4]C_6H_3\left\{\begin{matrix}[1]\\ =N-\\ [2]\\ =O-\end{matrix}\right\}C_6H_3\left\{\begin{matrix}[5]CH_3\\ [4]N(C_2H_5)_2\end{matrix}\right.$ Cl	By	29	
620a	CAPRI GREEN BN (S.).....	L	99	
621	CRESYL BLUE BBS.....1892 Dimethyl-diamido-toluphenoxazonium chloride and homologues.	L	0	
622	DELPHINE BLUE B.....1889 Ammonium salt of the sulphonic acid of dimethyl-phenyl-diamido-oxy-phenoxazone.	S	0	
623	PYROGALLOL-CYANINE-SULPHONIC ACIDS.....1908 Action of pyrogallol-sulphonic acid upon nitroso- mono- and di-alkyl-amines or upon nitroso-diazyl-amines.	DH	0	
624	VIOLET MODERNE N.....1907 Action of heat on Gallocyanines and Leuco-Gallocyanines.	DH	0	
625	CHROME HELIOTROPE.....1907 Action of nitroso-mono-alkyl-aryl-amines upon gallic acid and its derivatives, with subsequent reduction.	DH	0	
626	GALLOCYANINE.....1881 Dimethyl-amido-dioxy-phenazoxonium carboxylate. $(CH_3)_2N[4]C_6H_3\left\{\begin{matrix}[1]\\ -N=\\ [2]\\ -O-\end{matrix}\right\}C_6H\left\{\begin{matrix}[6]CO_2H\\ [5]=O\\ [3]OH\end{matrix}\right.$	.....	78,253	$27,227
	Gallocyanine D double paste.....	B		
	Gallocyanine F paste.....	B		
	Gallocyanine F powder.....	B		
	Gallocyanine.....	By		
	Gallocyanine DH paste.....	I		
	Gallocyanine paste 10 per cent.....	S		
	Gallocyanine powder.....	S		
	Gallocyanine powder.....	Q		
627	MODERN CYANINE.....1906 Action of aromatic diamines upon Gallocyanines and subsequent reduction.	DH	0	
628	GALLOCYANINE MS.....1894 Gallocyanine-sulphonic acid.	DH	0	
629	MODERN BLUE.....1905 Action of formaldehyde upon Gallocyanines, with subsequent reduction.	DH	0	
630	CYANAZURINE.....1909 Reduction of azylated Gallocyanines.	DH	0	
631	CHROMOCYANINE V.....1898 Sulphonic acids of Leuco-Gallocyanines.	DH	0	
632	ULTRA VIOLET LGP.....1907 Action of a Leuco-Cyanine upon a Gallocyanine.	S	2,646	
632a	ULTRA VIOLET (V. M.).....	.....	1,722	1,203
	Ultra Violet FKN (S.).....	K		
	Ultra Violet 943.....	K		
	Ultra Violet B (S.; Kal. 1910).....	S		

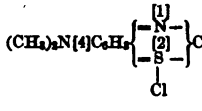
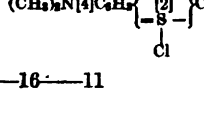
XIII. OXAZINE AND THIAZINE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
633	INDALIZARIN R ..... 1898 Action of sulphites upon Gallocyanine-sulphonic acids.	DH	0	
634	INDALIZARIN GREEN ..... Nitro-Gallocyanine-sulphonic acids.	DH	0	
635	MODERN VIOLET ..... 1898 Leuco-Gallocyanines.	DH	0	
636	PRUNE ..... 1886 Methyl ester of Gallocyanine.	.....	3,197	$2,216
				
	Prune pure	S	1,687	
	Prune 516	Lev	1,510	
637	GALLAMINE BLUE extra paste ..... 1889 Amide of Gallocyanine.	G	2,756	
				
638	AMIDO GALLAMINE BLUE ..... 1908 Action of ammonia upon Gallocyanines derived from gallamide and subsequent reduction.	DH	0	
639	GALLANILIC VIOLET R, B ..... 1889 Anilides of dimethyl- and diethyl-Gallocyanines.	DH	0	
640	MODERN AZURINE DH ..... 1907 Action of acids upon anilido-Gallocyanines or their leuco derivatives.	DH	0	
641	CELESTINE BLUE B (COREINE 2 R) ..... 1893 Amide of diethyl-Gallocyanine.	By	1,320	
				
642	PHENOCYANINE TC ..... 1893 Diethyl-amido-oxy-phenoxazone-oxy-phenyl ester.	DH	0	
643	PHENOCYANINE TV ..... 1893 Sulphonic acid of diethyl-amido-oxy-phenoxazone-oxy-phenyl ester.	DH	0	
644	ULTRACYANINE B ..... 1908 Condensation of Gallocyanine with resorcin.	S	0	
645	GALLAZINE A ..... 1893 Condensation of Gallocyanine with 2-naphthol-6-sulphonic acid, and subsequent oxidation.	DH	0	
646	COREINE AR, AB ..... 1894 Action of aniline upon Coreine 2 R (No. 641), and subsequent sulphonation.	DH	0	
647	RESORCIN BLUE ..... 1898 Tannin compound of dimethyl-amido-phenoxazone.	M	0	
648	IRIS BLUE ..... 1890 Ammonium salt of tetrabromo-resorufin.	B	0	

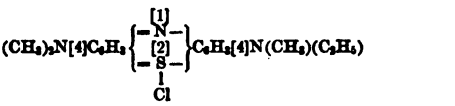
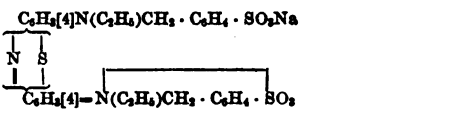
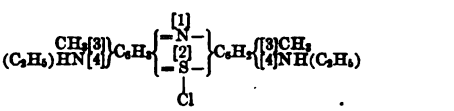
XIII. OXAZINE AND THIAZINE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
649	COTTON BLUE.....1879 Zinc double chloride of dimethyl-amido-naphtho-phenoxazonium chloride. 	.....	32,509	$9,675
	Fast Blue RD.....	A		
	Fast Blue 62105.....	A		
	Cotton Blue R extra powder.....	B		
	Cotton Blue RN.....	B		
	Cotton Blue N (S.).....	B		
	New Blue RR.....	B		
	New Blue RG (S.).....	By		
	Fast Navy Blue 1222. (Current marks, BM, GM, MM, RM.).....	K		
	Fast Navy Blue RZOO.....	GrE		
	Fast Navy Blue A.....	GrE		
	Fast Navy Blue BNNOO.....	GrE		
	Naphthol Blue 2 R extra (Kal. 1906).....	tM		
	Naphthol Blue 2 R extra conc. (Kal. 1906).....	tM		
	Fast Sailor Blue A.....	AW		
	Fast Sailor Blue R.....	AW		
	Meldola's Blue 3 R conc.....	S		
	Fast Cotton Blue 5754.....	Q		
	Fast Cotton Blue 5755.....	Q		
650	NEW BLUE B, G.....1889 Dimethyl-amido-dimethyl-amido-anilido-naphtho-phenazoxonium chloride.	C	0	
651	NEW METHYLENE BLUE GG.....1890 Tetramethyl-diamido-naphtho-phenazoxonium chloride.	C	0	
652	NEW FAST BLUE F, H.....1892 Condensation of tetra-alkyl-diamido-benzhydrols with oxazines. *From Meldola's Blue and Michler's hydrol:* 	By	0	
652a	NEW FAST BLUE R.....	.....	2,502	$76
	New Fast Blue R.....	I		
	New Fast Blue RS.....	I		
653	NILE BLUE.....1888 Diethyl-diamido-naphtho-phenazoxonium sulphate. 	.....	1,518	$65
	Nile Blue A.....	B		
	Nile Blue B.....1906	B		
	Nile Blue R.....	B		
654	NILE BLUE 2 B.....1891 Diethyl-benzyl-diamido-naphtho-phenazoxonium chloride.	B	0	
655	MUSCARINE.....1885 Dimethyl-amido-oxy-naphtho-phenazoxonium chloride.	DH	0	
656	ALIZARIN GREEN G.....1895 Dioxy-naphthazoxonium sulphonate.	WD	0	
657	ALIZARIN GREEN B.....1895 Dioxy-naphthazoxonium sulphonate. 	WD	0	

XIII. OXAZINE AND THIAZINE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
657a	BRILLIANT ALIZARIN GREEN	WD	551	
658	FAST BLACK.....1889 Action of nitroso-dimethyl-aniline hydrochloride upon m-oxy-diphenylamine.	L	0	
658a	GALLOPHENINE P (R. 70. An oxazine color)	By	1,960	
	B. THIAZINE COLORS.			
59	METHYLENE BLUE.....1876 Chloride, or zinc double chloride, of tetramethyl-diamido-phenazthionium.	.....	185,738	$72,619
				
	Methylene Blue 2 BD	A		
	Methylene Blue 2 BD 90484	A		
	Methylene Blue BX	A		
	Methylene Blue BB	B		
	Methylene Blue B conc	B		
	Methylene Blue B extra crystals	B		
	Methylene Blue BEX extra fine powder	B		
	Methylene Blue BG	B		
	Methylene Blue BGN	B		
	Methylene Blue HGG	B		
	Methylene Blue MD	B		
	Methylene Blue MDX	B		
	Methylene Blue B 27391	By		
	Methylene Blue BB	By		
	Methylene Blue 33 D 1383. (Current marks, BB, DBB, J, O.)	C		
	Methylene Blue FKII. (Current mark, 2 B.)	K		
	Methylene Blue L	K		
	Methylene Blue conc. 20 per cent red	M		
	Methylene Blue BB	M		
	Methylene Blue DBBM conc. 20 per cent red	M		
	Methylene Blue DDBM conc	M		
	Methylene Blue MEDZ crystals	M		
	Methylene Blue MEDZ powder	M		
	Methylene Blue 3 R	M		
	Methylene Blue B extra conc. (zinc-free)	tM		
	Methylene Blue B extra conc. (zinc-free) STD	tM		
	Methylene Blue BA extra conc	tM		
	Methylene Blue BG extra conc	tM		
	Methylene Blue 2 B conc	tM		
	Methylene Blue 52067	tM		
	Methylene Blue	WD		
	Methylene Blue 15746	P		
	Methylene Blue	G		
	Methylene Blue D 5582	I		
	Methylene Blue D (zinc-free, medic.)	I		
	Methylene Blue G conc	I		
	Methylene Blue BB	S		
	Methylene Blue (medium large crystals)	S		
	Methylene Blue S extra	CR		
	Methylene Blue 2 B	H		
	Methylene Blue	Q		
659a	TOLUIDINE BLUE	.....		
	Toluidine Blue (S.; S. J., 4th ed., 592)	B		
	Toluidine Blue (S.)	M		
659b	GENTIANINE A (S.; S. J., 4th ed., 587). A mixture of Methylene Blue and Lauth's Violet (hydrochlorate of Thionine)	G	220	
660	METHYLENE GREEN.....1886 Nitro-Methylene Blue.	.....	30,812	13,196
				

XIII. OXAZINE AND THIAZINE COLORING MATTERS—Continued.

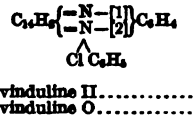
No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
660	METHYLENE GREEN—Continued.			
	Methylene Green B	B		
	Methylene Green BX	B		
	Methylene Green	K		
	Methylene Green BX	K		
	Methylene Green 247	K		
	Methylene Green N (extra yellow)	M		
	Methylene Green P	G		
	Methylene Green T	G		
	Methylene Green P (for silk)	I		
	Methylene Green extra conc	S		
661	THIONINE BLUE.....1885	.....	18,618	$7,872
	Zinc double chloride of trimethyl-ethyl-diamido-phenasthionium chloride.			
				
	Thionine Blue OO	A		
	Thionine Blue 3 O	A		
	Thionine Blue GO extra	A		
	Thionine Blue GO (old)	M		
662	THIOCARMINE R.....1890	C	1,300	
	Sodium salt of diethyl-dibenzyl-diamido-phenasthionium-disulphonic acid.			
				
663	NEW METHYLENE BLUE	.....	30,302	12,127
	Diethyl-diamido-toluphenasthionium chloride.			
				
	Methylene Blue NNX	B		
	Methylene Blue AN	B		
	Methylene Blue VN	B		
	New Methylene Blue F (S.; Kal. 1905).....1903	By		
	New Methylene Blue EEE 441. (Current marks, GB, GG, N, NSS, NX, R, 3 R.)	C		
	New Methylene Blue 17 F 985	C		
	New Methylene Blue 3 H 444	C		
	New Methylene Blue TT 400	C		
664	LEUCO-GALLO THIONINE DH.....1906	DH	0	
	Action of alkyl-p-diamine-thio-sulphonates upon gallic acid and its derivatives.			
665	URANIA BLUE.....1896	WD	122	
	Conjoint oxidation of β-dinaphthyl-m-phenylene-diamine-disulphonic acid and p-amido-dimethyl-aniline-thio-sulphonic acid.			
666	INDOCHROMOGEN S.....1893	S	0	
	Action of β-naphtho-quinone-disulphonic acid upon p-amido-diethylaniline-thiosulphonic acid.			
667	INDOCHROMINE.....1892	.....	19,060	12,430
	Condensation of β-naphtho-quinone-disulphonic acid with dimethyl-p-phenylene-diamine-thio-sulphonic acid, and similar condensations between their homologues.			
	Brilliant Alizarin Blue R powder	By		
	Brilliant Alizarin Blue 3 R powder	By		
	Brilliant Alizarin Blue D 3 G	M		
	Brilliant Alizarin Blue D 6 G	M		

XIII. OXAZINE AND THIAZINE COLORING MATTERS—Continued.

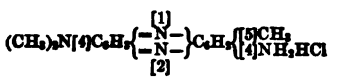
No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
667	INDOCHROMINE—Continued.			
	Brilliant Alizarin Blue DRL	M		
	Indochromine RR powder	S		
	Indochromine RR extra conc. double	S		
	Indochromine T conc	S		
	Indochromine T conc. double extra	S		
	Brilliant Alizarin Blue R powder	CR		
667a	INDOCHROMINE BLACK EXD conc. powder	S	4,331	

XIV. AZINE COLORING MATTERS.

A. QUINOXALINE COLORS.

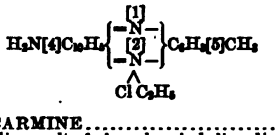
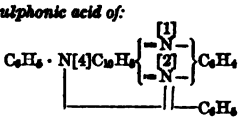
668	FLAVINDULINE.....1893 Phenyl-phenanthraphenazonium chloride. 		650	$378
	Flavinduline II	B	500	
	Flavinduline O	B	150	

B. EURHODINES.

669	NEUTRAL VIOLET.....1879 Conjoint oxidation of p-amido-dimethyl-aniline and m-phenylene-diamine.	C	0	
670	NEUTRAL RED.....1879 Hydrochloride of dimethyl-diamido-toluphenazine. 	C	0	

C. APOSAFRANINES.

1. Rosindulines.

671	INDULINE SCARLET.....1892 Amido-ethyl-tolu-naphthazonium chloride. 	B	196	
672	AZO CARMINE.....1888 Sodium salt of phenyl-rosinduline-disulphonic acid. *Disulphonic acid of:* 	.....	17,500	5,452
	Azo Carmine G paste	B		
	Azo Carmine GX	B		
673	AZOCARMINE B.....1888 Acid sodium salt of phenyl-rosinduline-trisulphonic acid.	B	0	
674	ROSINDULINE 2 G.....1890 Sodium salt of rosindone-B-monosulphonic acid.	K	0	
675	ROSINDULINE G.....1890 Sodium salt of rosindone-N-monosulphonic acid.	K	0	

XIV. AZINE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
	2. Isorosindulines.			
676	NEUTRAL BLUE R extra....1882 Dimethyl-amido-phenyl-pheno-naphthazonium chloride. $(CH_3)_2N[4]C_6H_3\{=[1]N[1]-\}C_{10}H_6$ $\{=[2]N[2]-\}$ $Cl\,C_6H_5$	AW	613	
677	BASLE BLUE R....1886 Dimethyl-amido-tolyl-amido-tolyl-pheno-naphthazonium chloride.	DII	0	
	D. SAFRANINES.			
	1. Benzo-safranines.			
678	FAST NEUTRAL VIOLET B....1880 Dimethyl-diethyl-diamido-phenazonium chloride.	C	0	
679	SAFRANINE....1859 Mixture of diamido-phenyl- and tolyl-tolazonium chlorides.	.....	59,921	$21,273
	Phenyl compound: $CH_3[5]\,NH_2[4]\,C_6H_3\{=[1]N[1]-\}C_6H_2\{[5]CH_3\ [4]NH_2$ $\{=[2]N[2]-\}$ $Cl\,C_6H_5$			
	Brilliant Safranine G	A		
	Safranine T extra conc	B		
	Safranine TK	B		
	Safranine FB extra	B		
	Safranine FF extra	By		
	Safranine 65 A 2188. (Current marks, G, GG, NT, S, SP.)	C		
	Safranine 64 W 2184	C		
	Safranine F	K		
	Safranine F 11	K		
	Safranine 1081	K		
	Safranine B conc	M		
	Safranine O	M		
	Safranine (blue shade)	L		
	Safranine B extra conc	tM		
	Safranine extra strong	AW		
	Safranine B superfine extra	G		
	Safranine prima	H		
	Safranine	Q		
680	METHYLENE VIOLET....1887 Dimethyl-diamido-phenyl-phenazonium chloride. $(CH_3)_2N[4]C_6H_3\{=[1]N[1]-\}C_6H_3[4]NH_2$ $\{=[2]N[2]-\}$ $Cl\,C_6H_5$	.....	1,521	614
	Methylene Violet 3 RA extra	K		
	Safranine bluish	K		
681	NEW FAST GRAY....1885 Oxidation of p-amido-dimethyl-aniline.	.....	29,507	10,426
	New Fast Gray	By		
	Methylene Gray ND powder	M		
	Fast Gray RGB	CG		
	Fast Gray B	GrE		
	Direct Gray B	P		
	Direct Gray J	P		
682	NIGRAMINE....1889 Action of nitroso-dimethyl-aniline hydrochloride upon aniline hydrochloride.	CG	0	
683	SAFRANINE MN....1887 Conjoint oxidation of p-amido-dimethyl-aniline and o- or p-toluidine. $(CH_3)_2N[4]C_6H_3\{=[1]N[1]-\}C_6H_2\{[3]CH_3\ [4]NH_2$ $\{=[2]N[2]-\}$ $Cl\,C_6H_5$	B	198	

XIV. AZINE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
684	RHODULINE VIOLET.................1894 Alkylated safranines obtained by the action of p-nitroso-alkyl-aryl-amines upon phenyl- (or p-tolyl-) p-amido-o-toluidine, or upon symmetrical phenyl- (or p-tolyl-) p-amido-benzyl-o-toluidine. *For example:* $(CH_3)_2N[4]C_6H_3\left\{\begin{matrix}-{[1]}N{[1]}-\\-{[2]}N{[2]}-\end{matrix}\right\}C_6H_2\left\{\begin{matrix}{[5]}CH_3\\{[4]}NH_2\end{matrix}\right.$ $\overset{\wedge}{Cl\;C_6H_5}$	By	1,991	
684a	BRILLIANT RHODULINE VIOLET (S. 1912).................	By	99	
684b	BRILLIANT RHODULINE RED B.................	By	661	
685	TANNIN HELIOTROPE................. Dimethyl-diamido-xylyl-xylophenazonium chloride. $(CH_3)_2N[4]C_6H_2\left\{\begin{matrix}-{[1]}N{[1]}-\\-{[2]}N{[2]}-\end{matrix}\right\}C_6H(CH_3)_2[4]NH_2$ $\overset{\wedge}{Cl\;C_6H_3(CH_3)_2}$	C	1,398	
686	AMETHYST VIOLET.................1883 Tetraethyl-diamido-phenyl-phenazonium chloride.	K	0	
687	ROSOLANE O, T, R.................1888 Phenyl-diamido-phenyl-toluphenazonium chloride.	M	0	
688	ROSOLANE, MAUVE.................1856 Salts of phenyl- and tolyl-safranines. *Lowest homologue:* $NH_2[4]C_6H_3\left\{\begin{matrix}-{[1]}N{[1]}-\\-{[2]}N{[2]}-\end{matrix}\right\}C_6H_3[4]NHC_6H_5$ $\overset{\wedge}{Cl\;C_6H_5}$	P	796	
689	INDAZINE M.................1888 Mixture of dimethyl-phenyl-safranine chloride and its dimethyl-amido-anilido derivative.	C	0	
690	METAPHENYLENE BLUE R.................1893 Oxidation of amido-dimethyl-aniline and di-p-tolyl-m-phenylene-diamine.	C	0	
691	METAPHENYLENE BLUE 2 B.................1888 Dimethyl-tolyl-diamido-tolyl-phenazonium chloride. $C_7H_7NH[4]C_6H_3\left\{\begin{matrix}-{[1]}N{[1]}-\\-{[2]}N{[2]}-\end{matrix}\right\}C_6H_3[4]N(CH_3)_2$ $\overset{\wedge}{Cl\;C_7H_7}$	C	50	
692	NAPHTHAZINE BLUE.................1892 Sodium salt of the disulphonic acid of dimethyl-β-naphthyl-diamido-β-naphthyl-phenazonium. *Probable composition:* $C_{10}H_6NH[4]C_6H_3\left\{\begin{matrix}-N-\\-N-\end{matrix}\right\}C_6H_3[4]N(CH_3)_2$ SO_3 ———————— $C_{10}H_6 . SO_3Na$	WD	265	
692a	NAPHTHAZINE NAVY BLUE 156.................	WD	5,996	
	2. Naphtho-safranines.			
693	MILLING BLUE BC.................1890 Sodium salt of a sulphonic acid of diphenyl-diamido-phenyl-naphthazonium chloride. *Sulphonic acid of:* $C_6H_5NH \cdot C_{10}H_5\left\{\begin{matrix}-N-\\-N-\end{matrix}\right\}C_{10}H_5 \cdot NH \cdot C_6H_5$ $\overset{\wedge}{Cl\;C_6H_5}$	K	3,082	

XIV. AZINE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
694	FAST PINK.....1868 Mixture of amido-naphthyl-naphthazonium chloride and diamido-naphthyl-naphthazonium chloride. *Monoamido compound:* $H_2N \cdot C_{10}H_5\left\{\begin{matrix}-N-\\-N-\end{matrix}\right\}C_{10}H_6$ Cl $C_{10}H_7$	.....	597	$344
	Fast Pink BN double conc	I		
	Fast Pink GN double conc	I		
695	PARAPHENYLENE VIOLET.....1888 Action of p-phenylene-diamine upon α-amido-azo-naphthalene.	WD	0	
695a	DIPHENE BLUE B (S.; S. J., 4th ed., 285)..... A naphthazonium color.	A	4,738	
	B. INDULINES.			
696	INDAMINE BLUE R, B.....1888 Amido-dianilido-phenyl-phenazonium chloride.	M	0	
697	INDULINE (spirit soluble).....1863 Mixtures of amido-, dianilido-, trianilido-, and tetraanilido-phenyl-phenazonium chlorides. *Tetraanilido compound:* $C_6H_5NH[3]$ $C_6H_5NH[4]$ $C_6H_3\left\{\begin{matrix}[1]\\-N-\\[2]\\-N-\end{matrix}\right\}C_6H_3$ $[3]NHC_6H_5$ $[4]NHC_6H_5$ Cl C_6H_5	.....	25,342	5,[illegible]16
	Induline conc	G		
	Fast Blue B	A		
	Indigene R	AW		
	Induline BA	P		
	Blue PCN paste	DH		
	Induline S	I		
	Induline 10350	I		
698	NIGROSINE (soluble in spirit).....1867 Mixtures of indulines (No. 697) with allied bases and fluorindines, obtained by heating nitrobenzene, aniline, and aniline hydrochloride with iron.	.....	186,540	23,435
	Nigrosine s. i. s	A		
	Nigrosine B s. i. s	A		
	Nigrosine powder	K		
	Nigrosine OL	K		
	Nigrosine SML	K		
	Nigrosine SUL	K		
	Nigrosine 419	K		
	Nigrosine 1091	K		
	Nigrosine 1455	K		
	Nigrosine 1951	K		
	Nigrosine 1952	K		
	Nigrosine 1953	K		
	Nigrosine 5782	K		
	Nigrosine 5783	K		
	Nigrosine 5785	K		
	Nigrosine 5786	K		
	Nigrosine Oil 5781	GrE		
	Spirit Jet Nigrosine 24618	CJ		
	Nigrosine 18872	tM		
	Nigrosine powder 10	tM		
	Nigrosine soluble in alcohol	tM		
	Nigrosine lumps soluble in fat	tM		
	Nigrosine small grains	tM		
	Nigrosine crystals	tM		
	Nigrosine B s. i. s	tM		
	Nigrosine BTR grains	tM		
	Nigrosine T crystals	tM		
	Nigrosine TTR	tM		
	Nigrosine Base 2 B soluble in amyl acetate	tM		
	Nigrosine Base R	tM		

XIV. AZINE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
698	NIGROSINE—Continued.			
	Nigrosine Base	WD		
	Spirit Nigrosine	WD		
	Black CBR	P		
	Black C 2 N	P		
	Nigrosine 2 B powder conc	G		
	Nigrosine BC crystals	G		
	Nigrosine BT grains	G		
	Nigrosine TRT grains	G		
	Nigrosine Black	H		
	Spirit Nigrosine LM	H		
	Spirit Nigrosine P	H		
	Nigrosine 16635	Q		
698a	GRAY NO (S. 1907)	S	55	
699	INDULINE (soluble in water) 1867	.....	21,775	$5,514
	Mixtures of the sodium salts of the sulphonic acids of the various spirit-soluble indulines.			
	Induline NN	B		
	Fast Blue R	B		
	Induline WLX	B		
	Induline B	By		
	Induline NBL	By		
	Fast Blue R	K		
	Induline RN	K		
	Induline 1768	K		
	Induline 1778	K		
	Fast Blue O soluble	M		
	Induline 2 B (soluble in water)	CJ		
	Solid Blue SBAOOOO	GrE		
	Solid Blue SBSOOO	GrE		
	Solid Blue Base SBXBX	GrE		
	Fast Blue SOOO	GrE		
	Fast Blue extra	tM		
	Induline DB extra	tM		
	Induline N extra	tM		
	Fast Blue B	AW		
	Solid Blue 3 R	S		
	Induline 38724	H		
	Induline 38725	H		
	Fast Blue	Q		
	Solid Blue RX	Q		
699a	INDULINE RED	.....	2,330	612
	Induline Red 1616	K		
	Induline Red 1650	K		
699b	FAST BLUE (V. M.)	.....	747	132
	Fast Blue AOOOO	GrE		
	Fast Blue 3 BB	GrE		
699c	INDOCYANINE B (S.; Kal. 1905; R. 56)	G	4,325	
700	NIGROSINE (soluble in water)	.....	394,718	58,903
	Sodium salts of sulphonic acids of spirit nigrosines (No. 698).			
	Nigrosine s. l. w. lumps	A		
	Nigrosine s. l. w. AD	A		
	Nigrosine AR s. l. w	A		
	Nigrosine FAL s. l. w	A		
	Nigrosine FAR s. l. w	A		
	Nigrosine 3 G s. l. w. lumps	A		
	Silver Gray P	A		
	Nigrosine C base	B		
	Nigrosine MS	B		
	Nigrosine T	B		
	Nigrosine WG	B		
	Nigrosine WL grains	B		
	Nigrosine WL powder	B		
	Nigrosine WLA grains (S.)	B		
	Nigrosine WLA lumps	B		
	Nigrosine WLAN	B		
	Nigrosine WLASB	B		
	Nigrosine WLASG	B		
	Nigrosine WLASG powder	B		
	Nigrosine WLG	B		
	Nigrosine WLG (brilliant grains)	B		
	Nigrosine WLN	B		
	Nigrosine WLP (brilliant grains)	B		
	Nigrosine WLY extra 13513 grains	B		

XIV. AZINE COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
700	NIGROSINE—Continued.			
	Nigrosine K	By		
	Nigrosine N B L	By		
	Nigrosine L 84	C		
	Silver Gray N	C		
	Induline Black base 5789	K		
	Nigrosine Crystals W S	K		
	Nigrosine Crystals 146	K		
	Nigrosine Crystals 1966	K		
	Nigrosine 3307	CJ		
	Nigrosine 4614	CJ		
	Nigrosine (soluble in water) 19665	CJ		
	Nigrosine (soluble in water) A R	CJ		
	Nigrosine Black B	GrE		
	Nigrosine K 3 B	GrE		
	Nigrosine K S B	GrE		
	Nigrosine K W	GrE		
	Nigrosine K W R	GrE		
	Nigrosine N J K S B	GrE		
	Nigrosine B	tM		
	Nigrosine B powder	tM		
	Nigrosine B grains	tM		
	Nigrosine B extra	tM		
	Nigrosine 2 B grains	tM		
	Nigrosine 2 B powder conc	tM		
	Nigrosine 3 B grains (Kal. 1911)	tM		
	Nigrosine D	tM		
	Nigrosine I A A (soluble in water) grains	tM		
	Nigrosine 14029	WD		
	Nigrosine 16633	WD		
	Nigrosine O	WD		
	Nigrosine T 8954	WD		
	New Nigrosine	A W		
	Nigrosine B (soluble in water)	I		
	Nigrosine B B (soluble in water)	I		
	Nigrosine I	S		
	Nigrosine 14029	S		
700a	BLACK (V. M.)		3,594	$396
	Black A J	P		
	Black N S A	P		
	Black 31604	P		
701	PARAPHENYLENE BLUE R.....1886 Fusion of p-phenylene-diamine with amido-azo-benzene hydrochloride.	WD	0	
702	PARA BLUE.....1890 Action of p-phenylene-diamine upon Aniline Blue (No. 521).	CG	0	
703	RUBRAMINE.....1889 Action of nitroso-dimethyl-aniline hydrochloride upon p-toluidine and o-toluidine.	CG	0	
704	INDAMINE 3 R.....1889 Action of nitroso-dimethyl-aniline hydrochloride upon o-toluidine hydrochloride.	CG	0	
705	INDAMINE 6 R.....1889 Action of nitroso-dimethyl-aniline hydrochloride upon a mixture of o-toluidine and p-toluidine hydrochlorides.	CG	0	
705a	INDOCYANINE (V. M.)		23,138	5,205
	Indocyanine B (S.; Kal. 1905; R. 56)	A		
	Indocyanine 2 R F (S.; Kal. 1908)	A		
705b	ACID CYANINE BF (S.; Kal. 1909, 1911; R. 56)	A	43,032	

XV. SULPHUR COLORING MATTERS.

(The constitution of these coloring matters is at present unknown except in a few rare cases.)

706	CACHOU DE LAVAL.....1873 Obtained by heating organic substances such as sawdust, bran, spent dyewood powder, etc., with sodium sulphide.	P	0	
707	SULPHINE BROWN.....1898 Action of sodium polysulphide upon unsaturated fatty acids, their esters and alkaline salts.	LD	0	

XV. SULPHUR COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
708	SULPHANILINE BROWN.....1901 Action of sodium polysulphide upon sulphite-cellulose waste.	.....	11,337	$1,153
	Sulphaniline Brown O.....	K		
	Sulphaniline Brown R.....	K		
	NOTE.—The three dyes enumerated above are not derived from coal-tar crudes, although usually included in lists of coal-tar colors.			
709	PYROGENE GREEN 2 G.....1895 Fusion of p-nitrophenol with caustic soda, sulphur, and copper sulphate.	I	298	
710	IMMEDIAL YELLOW D.....1902 Fusion of m-toluylene-diamine with sulphur at 190° C.	.....	13,395	2,266
	Immedial Yellow 14 D 908. (Current marks, D, GG, 1452 J.)..	C		
	Immedial Yellow 27 R 1246.....	C		
711	IMMEDIAL ORANGE C.....1902 Fusion of m-toluylene-diamine with sulphur at 250° C.	C	500	
712	KRYOGENE YELLOW G.....1903 Fusion of a mixture of m-toluylene-dithio-urea and benzidine with sulphur.	.....	1,126	253
	Kryogene Yellow G extra N.....	B		
	Kryogene Yellow GG extra.....	B		
713	THIOPHOR BRONZE 5 G.....1908 Fusion of a mixture of p-phenylene-diamine and p-amido-aceto-black with sulphur.	CJ	0	
714	THIOPHOR YELLOW BRONZE G.....1909 Fusion of a mixture of p-phenylene-diamine and p-amido-acetanilide with benzidine and sulphur.	CJ	0	
715	THIO CATECHINE.....1895 Fusion of p-diamines or acetyl-nitramines with sodium polysulphide.	P	0	
716	KRYOGENE YELLOW R extra.....1902 Fusion of m-toluylene-dithio-urea with sulphur.	B	4,804	
717	VIDAL BLACK.....1893 Fusion of p-amido-phenol (or of p-amido-phenol and other compounds) with sodium polysulphide.	P	7,495	
718	ST. DENIS BLACK.....1899 Phenol is treated with sulphur-chloride, and the product is brought into reaction with p-phenylene-diamine and nitrobenzene or with homologues of diphenylamine and indophenol. The resultant substance is treated with sulphur and sodium sulphide.	P	0	
719	THIONAL BLACK G conc. (S.; Kal. 1913).....1900 From p-, o-, or m-nitrobenzene-azo-o-nitrophenol, or a mixture of equal molecules of the latter and benzene-azo-o-nitrophenol, by fusion with sodium polysulphide.	S	16,865	
720	SULPHUR BLACK.....1899 Treatment of 1.2.4-dinitro-phenol with sodium polysulphide.	.....	502,309	54,557
	Sulphur Black T extra.....	A		
	Sulphur Black T extra M.....	A		
	Sulphur Black T extra 79964.....	A		
	Sulphur Black T extra 65621.....	A		
	Sulphur Black T extra strong 65 : 100.....	A		
	Kryogene Black TGO.....1904	B		
	Immedial Carbon 49 L 1790. (V. M.) (Current marks, B, BL, JHJ, 1698 J, R, RBS, RS.).....	C		
	Immedial Carbon 28 P 1269.....	C		
	Immedial Carbon 27 Q 1245.....	C		
	Thiocarbone NNG.....	C		
	Thiophenol Black T extra.....	I		

XV. SULPHUR COLORING MATTERS—Continued.

The following 100 sulphur-black dyes, falling under 18 headings, include all not specifically mentioned in Schultz's "Farbstofftabellen" and found under other serial headings in this section. The latter are 25 in number, falling under 6 headings. The arrangement adopted in this section is described on p. 39.

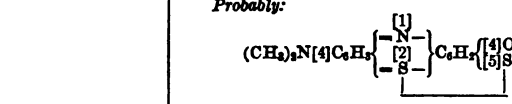
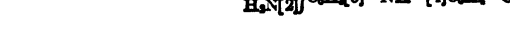
The total amount of all sulphur-black dyes imported into the United States during the fiscal year 1913–14 was 5,615,458 pounds. The total invoiced value was $558,909.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	SULPHUR BLACK		**3,703,979**	**$368,939**
720(A)a	Sulphur Black	A		
720(A)b	Sulphur Black 108583	A		
720(A)c	Sulphur Black A extra (S.; Kal. 1905)	A		
720(A)c	Sulphur Black A extra 69775	A		
720(A)c	Sulphur Black A extra conc. (S.; Kal. 1905)	A		
720(A)c	Sulphur Black A extra J	A		
720(A)c	Sulphur Black A extra M (S.; Kal. 1905)	A		
720(A)c	Sulphur Black A extra S (S.; Kal. 1905)	A		
720(A)c	Sulphur Black A extra strong (S.; Kal. 1905)	A		
720(A)c	Sulphur Black A extra strong 70 : 100	A		
720(A)c	Sulphur Black A extra strong M	A		
720(A)c	Sulphur Black A extra strong S	A		
720(A)c	Sulphur Black A extra strong, new	A		
720(A)d	Sulphur Black AW extra (S.; Kal. 1907)	A		
720(A)d	Sulphur Black AW extra J	A		
720(A)d	Sulphur Black AW extra M (S.; Kal. 1907)	A		
720(A)d	Sulphur Black AW extra, new	A		
720(A)e	Sulphur Black AWL extra (S.; Kal. 1913)	A		
720(A)f	Sulphur Black B extra conc. 50 : 100	A		
720(A)g	Sulphur Black 2 B extra (S.; Kal. 1902)	A		
720(A)g	Sulphur Black 2 B extra strong 75 : 100	A		
720(A)h	Sulphur Black 4 B extra (S.; Kal. 1904)	A		
720(A)i	Sulphur Black FAG extra strong 87½ : 100	A		
720(A)i	Sulphur Black FAG extra strong J	A		
720(A)i	Sulphur Black FAG extra strong S	A		
720(A)i	Sulphur Black FAG extra strong M	A		
720(A)i	Sulphur Black FAG extra strong, new	A		
720(A)j	Sulphur Black FT extra M	A		
720(A)k	Sulphur Black H	A		
720(A)l	Sulphur Black JBL conc.	A		
720(A)l	Sulphur Black JBL conc. M	A		
720(A)l	Sulphur Black JBL conc. S	A		
720(A)l	Sulphur Black JBL conc., new	A		
720(A)m	Sulphur Black TFA	A		
720(A)m	Sulphur Black TG extra	A		
	KYROGENE BLACK		**121,904**	**12,263**
720(B)a	Kyrogene Black TBO (S.; R. 66) 1904	B		
720(B)b	Kyrogene Black TG (R. 66)	B		
720(B)c	Kyrogene Black TGE	B		
	KATIGENE BLACK		**34,699**	**2,711**
720(By)a	Katigene Black 8WR extra 23875 (S.) 1902	By		
720(By)b	Katigene Black T 3 B (S.; Kal. 1907)	By		
720(By)c	Katigene Black TW extra (S.) 1905	By		
720(By)c	Katigene Black TW extra 27028	By		
720(By)d	Katigene Black TX (S.; Kal. 1908) 1903	By		
720(By)e	Katigene Black 26744	By		
720(By)f	**KATIGENE BLUE BLACK 4 BPA** (Kal. 1905)	By	**49,310**	
	KATIGENE BRILLIANT BLACK		**602**	**75**
720(By)g	Katigene Brilliant Black B extra (S.) 1904	By		
720(By)g	Katigene Brilliant Black FG extra	By		
	KATIGENE DEEP BLACK		**224,262**	**19,491**
720(By)h	Katigene Deep Black B (S. 1908) 1907	By		
720(By)h	Katigene Deep Black B 27029 (S. 1908) 1907	By		
720(By)h	Katigene Deep Black B new (S. 1908) 1907	By		
720(By)h	Katigene Deep Black B new 27029 (S. 1908) 1907	By		
	IMMEDIAL BRILLIANT CARBON		**113,900**	**15,197**
720(C)a	Immedial Brilliant Black B (S.; Kal. 1907, 1908)	C		
720(C)b	Immedial Brilliant Carbon F, FG (S.; Kal. 1908)	C		
	SULPHUR BLACK		**323,715**	**32,084**
720(K)a	Sulphur Black 2 B	K		
720(K)a	Sulphur Black BR extra	K		
720(K)a	Sulphur Black BRH	K		
720(K)a	Sulphur Black GF	K		
720(K)a	Sulphur Black KCB	K		
720(K)a	Sulphur Black MA	K		
720(K)a	Sulphur Black TS	K		

XV. SULPHUR COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
	SULPHUR BLACK—Continued.			
720(K)a	Sulphur Black 5274	K		
720(K)a	Sulphur Black 5276	K		
720(K)a	Sulphur Black 5285	K		
720(K)a	Sulphur Black 5290	K		
	THION BLACK		12,817	$1,275
720(K)b	Thion Black BCN (S.). (Current marks, B, 2B, BAW, BC, 3 BC, G, 2 GC, N, NN, R, 2 R, 3 R, RR, RT, SR, TGN.)	K		
720(K)b	Thion Black IC	K		
720(K)b	Thion Black (greenish) 11a	K		
	THION VIOLET BLACK A		19,800	3,471
720(K)c	Thion Violet Black (S.). (Current mark, A.)	K		
720(K)c	Thion Violet Black 5264	K		
	THIOGENE BLACK		83,089	7,084
720(M)a	Thiogene Black BB liquid	M		
720(M)a	Thiogene Black BB extra (S.; Kal. 1907, 1910)	M		
720(M)b	Thiogene Black 5 B conc	M		
720(M)c	Thiogene Black M conc. (S.; Kal. 1905)	M		
720(M)d	Thiogene Black MA high conc. (S.; Kal. 1910)	M		
720(M)e	Thiogene Black ML	M		
720(M)f	Thiogene Black MM conc	M		
720(M)g	Thiogene Black MZ conc. extra	M		
720(CJ)	THIOPHOR BLACK WLN superior (S.; Kal. 1906, 1909)	CJ	10,141	
	THIOXINE BLACK		143,471	11,254
720(GrE)a	Thioxine Black ABOOOO	GrE		
720(GrE)b	Thioxine Black ABBOOOO	GrE		
720(GrE)c	Thioxine Black 3 BOOO (Kal. 1907)	GrE		
720(GrE)d	Thioxine Black GB	GrE		
720(GrE)e	Thioxine Black 1151	GrE		
720(GrE)f	Thioxine Black 3705	GrE		
720(G)	ECLIPSE BLACK C (S.)	G	2,756	
	PYROGENE DEEP BLACK		13,011	1,724
720(I)a	Pyrogene Deep Black C (S.; Kal. 1908)	I		
720(I)b	Pyrogene Deep Black D (S.; Kal. 1908)	I		
720(I)c	Pyrogene Deep Black G (Kal. 1914)	I		
720(Lev)a	SULPHUR BLACK TR	Lev	27,394	
	THIONOL BLACK		6,498	550
720(Lev)b	Thionol Black S	Lev		
720(Lev)b	Thionol Black XX	Lev		
	CROSS DYE BLACK (Cf. No. 744)		38,583	4,780
720(H)a	Cross Dye Black BF 33 per cent (S.)	H		
720(H)b	Cross Dye Black F	H		
720(H)c	Cross Dye Black FG	H		
720(H)d	Cross Dye Black JNS	H		
720(H)e	Cross Dye Black LCV 35 per cent	H		
720(H)f	Cross Dye Black M	H		
720(H)g	Cross Dye Black RX	H		
720(H)h	Cross Dye Black X 30	H		
720(H)i	Cross Dye Black (blue) extra	H		
721	THIO COTTON BLACK.....1900 Fusion of a mixture of dinitro-phenol and p-amido-phenol-sulphonic acid with sodium polysulphide.	WD	0	
722	AURONAL BLACK N 2 R extra paste (S.; Kal. 1900, 1908, 1909, 1911) Action of sodium polysulphide upon the sodium salt of dinitro-phenol in solution.	tM	5,677	
722a	AURONAL BLACK (V. M.)		45,202	4,643
	Auronal Black 3 extra paste	tM		
	Auronal Black 4 A strong	tM		
	Auronal Black 4 G strong (Kal. 1909)	tM		
	Auronal Black 5 GL extra (Kal. 1914)	tM		
	Auronal Black 3 A extra paste	G		
	Auronal Black 4 A extra conc	G		

XV. SULPHUR COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
723	AUTOGENE BLACK EEB.....1907 Action of sodium polysulphide upon dinitro-phenol under special conditions of temperature, etc.	P	0	
724	IMMEDIAL BLACK.....1897 Fusion of dinitro-oxy-diphenylamine (from chloro-dinitro-benzene and p-amidophenol) with sodium polysulphide. Immedial Black 14 A 905 (S.). (Current marks, BF, FF, G, NB, NBB, NF, NG, NLN, NN, NNG, NNR, NNZ, NR, NRT, NV, V.) Immedial Black 9 C 782 Immedial Black 23 E 1134 Immedial Black 12 N 867 Immedial Black 19 O 1043	..... C C C C C	51,669	$6,193
724a	IMMEDIAL BLUE..... Immedial Blue 23 M 1141. (Current marks, C, CB, CR.) Immedial Blue 12 S 872	..... C C	2,997	364
725	IMMEDIAL BROWN.....1900 Fusion of dinitro-p-cresol, or of the product obtained from caustic alkalies and dinitro-oxy-diphenylamine, with sodium polysulphide. Immedial Brown 14 C 907 (S.). (Current marks, B, BR, BU, G, RR, W.) Immedial Brown 5 L 690 Immedial Brown 15 P 944 Immedial Brown 24 R 1171 Immedial Dark Brown 19 Q 1045. (Current marks, A, D.) Immedial Dark Brown 50 S 1822	..... C C C C C C	23,337	2,553
726	PYROGENE BLUE.....1900 Action of sodium polysulphide upon dinitro-oxy-diphenylamine, or upon indophenols, in alcoholic solution, under pressure. Pyrogene Blue RR double (S. 1903) Pyrogene Blue 2 RN conc. 400 per cent Pyrogene Direct Blue RL (Kal. 1914) Pyrogene Direct Blue	..... I I I I	10,934	2,582
727	AURONAL BLACK B.....1901 Fusion of dinitro-p-amido-diphenylamine (from dinitro-chloro-benzene and p-phenylene-diamine) with sodium sulphide and glycerin.	tM	0	
728	IMMEDIAL SKY BLUE.....1901 Probably dimethyl-amido-oxy-phenazthionium-sulphide. Fusion of dimethyl-p-amido-p-oxy-diphenylamine with sodium polysulphide at 110° to 115°. *Probably:* 	C	0	
729	KRYOGENE PURE BLUE R.....1901 Fusion of Methylene Violet with alkaline polysulphides.	B	0	
730	PYROGENE BLACK G.....1901 Fusion of indophenols or of nitro-amido-oxy-diphenylamine with polysulphides.	I	8,725	
731	THIOPHOR INDIGO CJ.....1905 Treatment of the leuco compound of indophenol (obtained from a-naphthol and p-amido-dimethyl-aniline) with alkaline polysulphides.	CJ	0	
732	AUTOGENE BLACK.....1899 Condensation of amido- (or diamido-) oxy-diphenylamine with the product of the action of sulphur chloride upon phenol, cresol, or amines, and final fusion with sodium sulphide.	P	7,495	
733	IMMEDIAL INDONE.....1902 Fusion with polysulphides of the indophenol obtained from o-toluidine and p-amido-phenol. 	.....	4,236	1,127

XV. SULPHUR COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
733	IMMEDIAL INDONE—Continued.			
	Immedial Indone 68 H 2271 (S.; Kal. 1914). (Current marks, B, 3 B, BF, BBF, BN, JBN, KB, R, RB, RR, RG, 17865.)	C		
	Immedial Indone 68 J 2272	C		
	Immedial Indone 68 K 2273	C		
	Immedial Indone 68 L 2274	C		
	Immedial Indone 17 M 991	C		
	Immedial Indone 68 S 2281	C		
	Immedial Indone 34 U 1424	C		
	Immedial Indone 28 W 1276	C		
733a	IMMEDIAL INDONE VIOLET B (S.; Kal. 1910)	C		
734	PYROGENE YELLOW....1900	.....	18,515	$5,102
	Action of polysulphides upon nitro-, amido-, and oxy-nitro-amido-benzyl-amido compounds and upon oxy-benzylidene compounds.			
	Pyrogene Yellow M	I		
	Pyrogene Yellow O	I		
735	PYROGENE INDIGO....1902	.....	22,661	6,652
	Fusion with polysulphides of the indophenol corresponding to phenyl-tolyl-amine or to phenyl-amido-p-oxy-diphenyl-amine.			
	Pyrogene Indigo 250 per cent	I		
	Pyrogene Indigo CL 200 per cent (Kal. 1908, 1913)	I		
	Pyrogene Indigo GL	I		
	Pyrogene Indigo 5 G 450 per cent (Kal. 1905)	I		
	Pyrogene Indigo R	I		
	Pyrogene Indigo RR	I		
736	THION BLUE B....1902	K	4	
	Fusion with sodium polysulphide of the product of the reaction of carbon disulphide upon p-nitro-o-amido-p-oxy-diphenyl-amine.			
736a	THION DIRECT BLUE 5130 (S). (Current marks, B, BG, BU, G, R, 2 R, THB, THR.)	K	7,349	
737	SULPHINE BROWN (COTTON BROWN)....1898	.....	2,206	188
	Fusion of nitrated diphenylamine-sulphonic acid with sodium polysulphide.			
	Sulphine Brown B	CG		
	Sulphine Brown B conc. 200 per cent	CG		
	Sulphine Brown G	CG		
738	COTTON BLACK....1898	WD	0	
	Fusion with sodium polysulphide of o-p-dinitro-diphenyl-amine-sulphonic acid (from dinitro-chloro-benzene and m-(or p-) amido-benzene-sulphonic acid).			
739	IMMEDIAL MAROON B....1900	.....	15,496	2,585
	Fusion with sodium polysulphide of amido-oxy-phenazines, their homologues or derivatives. For example, safranol.			
	Immedial Bordeaux G	C		
	Immedial Maroon B	C		
740	FAST BLACK B....1893	B	0	
	Action of sodium sulphide in aqueous solution upon 1.8-dinitro-naphthalene.			
741	FAST BLACK BS....1894	B	0	
	Action of alkalies upon Fast Black B (No. 740).			
742	PRINTING BLUE FOR WOOL....1895	B	0	
	Reduction of 1.8-dinitro-naphthalene with sodium sulphide in presence of sodium sulphite and caustic soda.			
743	KRYOGENE BROWN A....1895	B	0	
	Fusion with sodium polysulphide of the product obtained by reduction of 1.8-dinitro-naphthalene by sodium sulphide in presence of sodium sulphite.			
744	SULPHO BLACKS B, 2 B, etc....1890	H	0	
	Fusion of a variety of amido compounds and phenols with sodium polysulphide.			
745	MELANOGENE BLUE....1900	M	0	
	Action of polysulphides upon 1.5-dinitro-naphthalene.			

XV. SULPHUR COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
746	KATIGENE GREEN.....1904 Action of sodium polysulphide upon 1-aryl-amido-4-p-oxyphenyl-amido-naphthalene-sulphonic acid, in the presence of copper salts. *Example:* $HO[1]C_6H_4[4]-NH-[4]C_{10}H_5\begin{cases}[1]NH.C_6H_5\\[8]SO_3H\end{cases}$	.....	63,960	$9,950
	Katigene Green 2 B (S. 1900)	By		
	Katigene Green 4 B (Kal. 1905)	By		
	Katigene Green 2 G (Kal. 1905)	By		
	Katigene Green 2 G conc. 27276	By		
	Katigene Green MK extra (Kal. 1914)	By		
	Immedial Green 23 P 1144 (S.). (Current marks, BB, BBX, GG, GGX.)	C		
	Immedial Green 69 S 2306	C		
	Immedial Green 23 U 1149	C		
	Immedial Green 35 X 1452	C		
	Immedial Green Blue 43 S 1647	C		
	Pyrogene Blue Green B	I		
747	THIONAL RED BROWN.....1902 Action of sodium polysulphide upon β-oxy-naphtho-quinone-aryl-imido compounds at 240°–280° C.	S	110	
748	HYDRON BLUE.....1909 Condensation of p-nitroso-phenol with carbazol to $C_6H_4\begin{cases}[1]-NH\\ \quad\vert\\ \quad[1]\\ [2]-C_6H_3[4]NH\cdot[1]C_6H_4[4]OH\end{cases}$ and subsequent fusion with polysulphides.	.....	292,729	33,555
	Hydron Blue 48 L 1765 (Kal. 1914). (Current marks, G, R.)	C		
	Hydron Blue 48 M 1766	C		
	Hydron Blue 52 R	C		
	Hydron Blue 52 R 1871	C		
	Hydron Blue 52 S 1872	C		
	Indo Carbon 44 M 1666 (Kal. 1911). (Current marks S, SF.)	C		
748a	HYDRON BROWN	.....	1,600	706
	Hydron Brown 67 L 2249 (Kal. 1914)	C		
	Hydron Brown 67 M 2250	C		
748b	HYDRON OLIVE	.....	2,196	684
	Hydron Olive 55 G 1936 (S.; Kal. 1914). (Current mark, G.)	C		
	Hydron Olive 66 S 2231	C		
748c	HYDRON VIOLET 53 X 1902 (S.; Kal. 1913). (Current marks, B, R, WE.)	C	99	
748d	HYDRON YELLOW G (S.; Kal. 1913)	C	99	
749	ANTHRAQUINONE BLACK.....1896 Fusion with polysulphides of 1.4'-di-o-nitro-anthraquinone, or of the mixed products obtained by the nitration of anthraquinone.	B	0	
750	KRYOGENE BROWN A, G.....1897 1.8-Dinitro-naphthalene is treated first with sodium bisulphite and next with polysulphides.	.....	10,313	972
	Kryogene Brown A	B		
	Kryogene Brown GX	B		
751	KRYOGENE BROWN RBNXX.....1905	B	498	
751a	KRYOGENE BROWN RXX	B	1,100	
751b	KRYOGENE RED BROWN GRXX (S.; Kal. 1911)	B	51	
752	KRYOGENE DIRECT BLUE G (S.; Kal. 1908).....1908	B	2,989	
753	KRYOGENE DIRECT BLUE B.....1907	.....	6,926	1,404
	Kryogene Direct Blue B	B		
	Kryogene Direct Blue BNAGX conc	B		
	Kryogene Blue BNO	B		

XV. SULPHUR COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
754	KRYOGENE DIRECT BLUE 3 B extra.....1908	B	1,199	
754a	KRYOGENE GREEN GX (S.; Kal. 1913).....	B	2,855	
754b	KRYOGENE VIOLET 3 RX (S. 1910).....	B	600	
755	KRYOGENE BLACK BNX.....1901	B	0	
756	KRYOGENE BLACK TGO.....1904	B	0	
757	SULPHOGENE BROWN G, D.....	I	0	

XVa. UNCLASSIFIED SULPHUR COLORS.

The following dyes include those sulphur colors currently imported and used in the United States, concerning the manufacture of which no details have yet been published. The many varieties of sulphur blacks falling in this category have already been enumerated in a special section following No. 720. What has been stated regarding the arrangement of unclassified azo colors in the section introduced after No. 492, page 110, holds good for the following section. It includes 203 dyes, falling under 97 headings.

	SULPHUR BLACK BROWN.....	.....	396	253
S1	Sulphur Black Brown N extra conc. 55 : 100.....	A		
S2	Sulphur Black Brown NR extra conc. 70 : 100.....	A		
	SULPHUR BLUE.....	.....	73,434	15,489
S3	Sulphur Blue B extra (S.; Kal. 1911).....1909	A		
S3	Sulphur Blue B extra conc. 50 : 100.....	A		
S4	Sulphur Blue D conc. (S.; Kal. 1911).....	A		
S5	Sulphur Blue D extra conc. (S.; Kal. 1911).....	A		
S6	Sulphur Blue L extra.....	A		
S6	Sulphur Blue L extra conc. 60 : 100.....	A		
S7	Sulphur Blue PR (S.; Kal. 1913).....	A		
S8	Sulphur Blue R extra (S.; Kal. 1911).....	A		
S8	Sulphur Blue R extra conc. 50 : 100.....	A		
S9	Sulphur Blue 2 R extra (S.; Kal. 1911).....	A		
S10	Sulphur Blue 4 R extra.....	A		
S11	SULPHUR BRILLIANT GREEN GK.....	A	196	
	SULPHUR BROWN.....	.....	79,691	9,505
S12	Sulphur Brown CL 4 R.....	A		
S13	Sulphur Brown G (S.; Kal. 1903).....	A		
S14	Sulphur Brown 2 G (S.; Kal. 1903).....	A		
S15	Sulphur Brown 6 G extra (S.; Kal. 1909).....	A		
S16	Sulphur Brown O extra (S.; Kal. 1910).....	A		
S17	Sulphur Brown OB extra (S.; Kal. 1910).....	A		
	SULPHUR CATECHU.....	.....	48,973	5,071
S18	Sulphur Catechu G (S.; Kal. 1904).....	A		
S19	Sulphur Catechu R (S.; Kal. 1904).....	A		
	SULPHUR CORINTH.....	.....	1,186	254
S20	Sulphur Corinth B (S.; Kal. 1904).....	A		
S21	Sulphur Corinth CLB.....	A		
	SULPHUR GREEN.....	.....	9,157	1,972
S22	Sulphur Green 2 BK.....	A		
S23	Sulphur Green 4 BK.....	A		
S24	Sulphur Green G extra (S.; Kal. 1906).....	A		
S25	Sulphur Green 4 GK.....	A		
	SULPHUR INDIGO.....	.....	10,488	2,035
S26	Sulphur Indigo BA extra (S.; Kal. 1905).....	A		
S27	Sulphur Indigo BA extra 50 : 100.....	A		
S28	Sulphur Indigo CL extra.....	A		
S29	Sulphur Indigo CLGG extra.....	A		
S30	SULPHUR OLIVE B extra (S.; Kal. 1910).....	A	399	
	SULPHUR RED BROWN.....	.....	3,780	616
S31	Sulphur Red Brown 2 RK.....	A		
S32	Sulphur Red Brown 6 RK.....	A		
	SULPHUR VIOLET.....	.....	1,799	254
S33	Sulphur Violet R extra.....	A		
S34	Sulphur Violet Y 3 R.....	A		

XVa. UNCLASSIFIED SULPHUR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	SULPHUR YELLOW		4,217	$357
S35	Sulphur Yellow G extra (S.; Kal. 1908)	A		
S36	Sulphur Yellow 4 G (S.; Kal. 1910)	A		
S37	Sulphur Yellow I	A		
S38	Sulphur Yellow R extra (S.; Kal. 1906)	A		
	KATIGENE BLACK BROWN		11,006	1,336
S39	Katigene Black Brown BW extra conc. (S.; Kal. 1907)...1905	By		
S40	Katigene Black Brown GN extra conc. (S.; Kal. 1907)....1905	By		
S41	Katigene Black Brown R extra conc	By		
S43	KATIGENE BRILLIANT GREEN 3 G (Kal. 1912).....1910	By	1,590	
	KATIGENE BROWN		22,811	2,452
S45	Katigene Brown 2 R (Kal. 1905).....1903	By		
S46	Katigene Brown V (S.).....1905	By		
S47	KATIGENE CHROME BLUE 5 G (S.)	By	1,407	
S48	KATIGENE CUTCH B (S.; Kal. 1908).....1906	By	7,699	
	KATIGENE DIRECT BLUE		11,299	2,305
S49	Katigene Direct Blue B extra conc. (Kal. 1914)	By		
S50	Katigene Direct Blue RF extra conc. (Kal. 1911).....1910	By		
	KATIGENE INDIGO		42,157	5,924
S51	Katigene Indigo extra conc	By		
S52	Katigene Indigo B extra (S. 1901)	By		
S53	Katigene Indigo G extra (S.; Kal. 1907)	By		
S54	Katigene Indigo 3 GT extra conc	By		
S55	KATIGENE KHAKI G extra (Kal. 1905).....1904	By	14,242	
S56	KATIGENE OLIVE GN (S. 1901)	By	1,299	
S57	KATIGENE OLIVE BROWN R	By	498	
	KATIGENE RED BROWN		68,864	9,336
S58	Katigene Red Brown R.....1909	By		
S59	Katigene Red Brown 3 R (S.; Kal. 1908)	By		
	KATIGENE VIOLET		3,638	1,178
S60	Katigene Violet B (Kal. 1907).....1905	By		
S61	Katigene Violet 3 R (Kal. 1911)	By		
	KATIGENE YELLOW		55,227	9,318
S62	Katigene Yellow G (S.).....1903	By		
S63	Katigene Yellow GG extra (S.).....1906	By		
S64	Katigene Yellow GR extra (Kal. 1912)	By		
	KATIGENE YELLOW BROWN		36,326	5,617
S65	Katigene Yellow Brown GG (S.).....1902	By		
S66	Katigene Yellow Brown GR (S.; Kal. 1905).....1904	By		
S66	Katigene Yellow Brown GR extra	By		
S67	Katigene Yellow Brown 9 R	By		
S68	Katigene Yellow Brown RL (S.; Kal. 1912)	By		
S69	IMMEDIAL BRILLIANT GREEN G (S.; Kal. 1909)	C	4,799	
	IMMEDIAL CUTCH		37,676	7,158
S70	Immedial Cutch 15 N 942 (S.; Kal. 1905, 1913). (Current marks, BG, BGG, G, O, OG, OR, R.)	C		
S71	Immedial Cutch 37 N 1492	C		
S72	Immedial Cutch 15 O 943	C		
S73	IMMEDIAL DARK GREEN B (S. 1903)	C	1,001	
S74	IMMEDIAL DEEP GREEN G (S.; Kal. 1907)	C	1,299	
	IMMEDIAL DIRECT BLUE		73,892	11,165
S75	Immedial Direct Blue 35 C 1432 (S.; Kal. 1905, 1910, 1911). (Current marks, B, BB, 4 B, 5 B, OD, R, 23495.)	C		
S75	Immedial Direct Blue 35 D 1433	C		
S75	Immedial Direct Blue 69 F 2294	C		
S75	Immedial Direct Blue 69 K 2298	C		
S75	Immedial Direct Blue 12 K 864	C		
S75	Immedial Direct Blue 49 V 1800	C		

XVa. UNCLASSIFIED SULPHUR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	IMMEDIAL INDOGENE		90,077	$13,141
S76	Immedial Indogene 27 N 1242 (S.; Kal. 1910, 1911). (Current marks, B, BCL, GCL, GGL, RCL.)	C		
S76	Immedial Indogene 47 R 1746	C		
S77	IMMEDIAL KHAKI 70 A 2314 (S.; Kal. 1909). (Current marks, D, G.)	C	24	
	IMMEDIAL NEW BLUE		37,492	10,016
S78	Immedial New Blue G conc. (S. 1905)	C		
S78	Immedial New Blue G	C		
	IMMEDIAL OLIVE		3,396	457
S79	Immedial Olive 33 E 1384 (S.; Kal. 1905, 1909). (Current marks, B, 2 G, 3 G.)	C		
S79	Immedial Olive 14 L 915	C		
S79	Immedial Olive 18 U 1024	C		
S80	IMMEDIAL PURPLE C	C	1,001	
S81	IMMEDIAL VIOLET C	C	2,380	
	IMMEDIAL YELLOW OLIVE		8,292	2,305
S82	Immedial Yellow Olive 43 H 1637 (S.; Kal. 1908, 1910). (Current marks, G, 5 G.)	C		
S82	Immedial Yellow Olive 49 Q 1795	C		
S82	Immedial Yellow Olive 30 W 1326	C		
	SULPHUR BLUE		9,899	1,622
S83	Sulphur Blue BG	K		
S83	Sulphur Blue CHL	K		
S83	Sulphur Blue G	K		
S83	Sulphur Blue U	K		
	SULPHUR BROWN		12,735	1,926
S84	Sulphur Brown (bluish)	K		
S84	Sulphur Brown (reddish)	K		
	SULPHUR INDIGO BLUE		882	502
S85	Sulphur Indigo Blue RCL	K		
S85	Sulphur Indigo Blue 827	K		
	THION BROWN		18,579	2,824
S86	Thion Brown G extra (S.). (Current marks, G, O, R, 3 R, T.)	K		
S86	Thion Brown 2 R	K		
S86	Thion Brown S extra	K		
S86	Thion Brown 5201	K		
S86	Thion Brown 5202	K		
S86	Thion Brown 5206	K		
S86	Thion Brown 5209	K		
S87	THION DARK BLUE BO	K	220	
	THION GREEN		732	269
S88	Thion Green 2 G extra (S.; Kal. 1907)	K		
S89	Thion Green 829 (S.; Kal. 1907, 1910). (Current marks, B, 2 B, 2 G, 4 G, 6 G.)	K		
	THION NAVY BLUE		7,874	1,206
S90	Thion Navy Blue 475 (S.; Kal. 1905, 1907, 1909, 1914). (Current marks, B, V, UR, U 2 R, UT.)	K		
S90	Thion Navy Blue 5132	K		
S90	Thion Navy Blue 5133	K		
	THION ORANGE		2,557	516
S91	Thion Orange 2095 (S.). (Current marks, N, NG.)1903	K		
S91	Thion Orange 5042	K		
S92	THION PURPLE O extra	K	123	
S93	THION VIOLET V extra (S.; Kal. 1911). (Current marks, B, 3 R.)	K	265	
	THION YELLOW		1,978	379
S94	Thion Yellow 2 G 40914 (S.)	K		
S95	Thion Yellow 5 G (S.). (Current marks, G, 2 G, 4 G, GN.)	K		
S96	Thion Yellow 2365	K		
S96	Thion Yellow 5004	K		
S96	Thion Yellow 5728 J	K		

XVa. UNCLASSIFIED SULPHUR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	THIOGENE BLUE		14,344	$2,261
S97	Thiogene Blue R (S. 1905)	M		
S98	Thiogene Blue 2 R (S. 1905)	M		
S99	Thiogene Blue RL liquid (S. 1905)	M		
	THIOGENE BROWN		97,551	10,601
S100	Thiogene Brown G (S.; Kal. 1905)	M		
S101	Thiogene Brown GC (S.; Kal. 1905)	M		
S102	Thiogene Brown GG (S.)	M		
S103	Thiogene Brown GR (S.; Kal. 1905)	M		
S104	Thiogene Brown G 2 R (S.; Kal. 1905)	M		
S105	Thiogene Brown R (S.; Kal. 1905)	M		
S106	Thiogene Brown § (S.; Kal. 1905)	M		
	THIOGENE CYANINE		6,540	1,209
S107	Thiogene Cyanine B (Kal. 1913)	M		
S108	Thiogene Cyanine G (S.)	M		
S109	THIOGENE DARK RED G (S.; Kal. 1907)	M	500	
	THIOGENE DEEP BLUE		13,186	3,049
S110	Thiogene Deep Blue (S.; Kal. 1911)	M		
S111	Thiogene Deep Blue BR conc. (S.; Kal. 1911)	M		
	THIOGENE GREEN		8,106	1,167
S112	Thiogene Green BL (S.; Kal. 1908)	M		
S113	Thiogene Green G (S.; Kal. 1909)	M		
S114	Thiogene Green GG (S.; Kal. 1908)	M		
S115	Thiogene Green GL (S.; Kal. 1908)	M		
S116	THIOGENE KHAKI N conc. (S.)	M	1,520	
S117	THIOGENE NEW BLUE JL (S.; Kal. 1911)	M	4,737	
S118	THIOGENE OLIVE GREEN GGN (S.; Kal. 1910)	M	70	
S119	THIOGENE ORANGE R (S.)	M	1,200	
S120	THIOGENE VIOLET V (S.; Kal. 1908)	M	3,898	
	THIOGENE YELLOW		5,545	976
S121	Thiogene Yellow GG (S.)	M		
S122	Thiogene Yellow 5 G (S.; Kal. 1911)	M		
	SULPHUR BLUE		1,543	428
S123	Sulphur Blue BE (S.; Kal. 1911) 1909	BK		
S124	Sulphur Blue RR conc. 200 per cent	BK		
	SULPHINE BLUE		2,604	549
S125	Sulphine Blue B conc. 200 per cent (S. 1913)	CG		
S126	Sulphine Blue R	CG		
S127	THIOPHOR BLUE B conc. (S.; Kal. 1909)	CJ	220	
S128	THIOPHOR DARK BROWN B conc. (S.; Kal. 1906, 1909)	CJ	441	
S129	THIOPHOR DEEP GREEN CG (Kal. 1910)	CJ	1,322	
S130	THIOPHOR KHAKI	CJ	1,565	
S131	THIOPHOR ORANGE O conc. (S.; Kal. 1906, 1909)	CJ	110	
S132	THIOPHOR YELLOW R conc. (S.; Kal. 1906, 1909)	CJ	220	
S132a	THIOPHOR YELLOW OLIVE conc. (Kal. 1914)	CJ	331	
	THIOXINE BROWN		2,114	336
S133	Thioxine Brown 5 G (S.; Kal. 1913)	GrE		
S134	Thioxine Brown 2 GR (Kal. 1914)	GrE		
	PYROL BROWN		2,414	356
S135	Pyrol Brown G extra (S.; Kal. 1911)	L		
S135	Pyrol Brown (yellowish)	L		
S136	Pyrol Brown 69181 (S.; Kal. 1911)	L		
S137	AURONAL BLUE D	tM	110	
S138	AURONAL GREEN TA	tM	1,874	
	AURONAL ORANGE		463	88
S139	Auronal Orange S	tM		
S140	Auronal Orange R	tM		

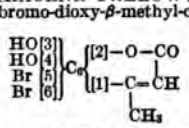
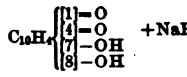
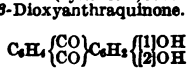
XVa. UNCLASSIFIED SULPHUR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	ECLIPSE BROWN		4,393	$739
8141	Eclipse Brown B (S. 1901). (Made by fusing m-toluylene-diamine with polysulphides in the presence of oxalic acid. Ger. Pat. 125586.)	G		
8142	Eclipse Brown GC (S. 1901)	G		
8143	Eclipse Brown R	G		
	ECLIPSE FAST BROWN		4,320	912
8144	Eclipse Fast Brown BC (S. 1908)	G		
8145	Eclipse Fast Brown GC (S. 1908)	G		
8146	Eclipse Fast Brown 3 GC (S.)	G		
8147	Eclipse Fast Brown 4 R (S.; Kal. 1914)	G		
8148	ECLIPSE FAST DARK BROWN BC	G	55	
	ECLIPSE FAST RED BROWN		2,125	518
8149	Eclipse Fast Red Brown	G		
8149	Eclipse Fast Red Brown conc	G		
8150	Eclipse Fast Red Brown E conc. (Kal. 1914)	G		
	ECLIPSE PHOSPHINE		1,069	162
8151	Eclipse Phosphine GGC	G		
8152	Eclipse Phosphine RRC (S. 1908)	G		
	ECLIPSE YELLOW		1,909	286
8153	Eclipse Yellow G (S. 1903). (The various marks of Eclipse Yellow (G, 3 G, R) are made from benzidine or m-toluylene-diamine by fusion with polysulphides and monoformyl- or diformyl-m-toluylene-diamine.)	G		
8154	Eclipse Yellow 3 G 170	G		
	PYROGENE BROWN		63,450	6,689
8155	Pyrogene Brown D (S.; Kal. 1910) (Cachou de Laval(?))	I		
8156	Pyrogene Brown G (S.; Kal. 1905)	I		
8157	Pyrogene Brown GX (S.; Kal. 1905)	I		
8158	Pyrogene Brown OR (S.; Kal. 1905)	I		
8159	Pyrogene Brown ORR (S.; Kal. 1905)	I		
8160	Pyrogene Brown 4 R extra (S.; Kal. 1905)	I		
	PYROGENE CUTCH		1,999	389
8161	Pyrogene Cutch DR (S.; Kal. 1905, 1910)	I		
8162	Pyrogene Cutch 2 GO (S. 1903)	I		
8163	Pyrogene Cutch 2 R extra (S.; Kal. 1905)	I		
8164	PYROGENE ORANGE R (S.; Kal. 1914)	I	421	
8165	SULPHUR BROWN M	I	1,731	
8166	SULPHUR YELLOW R conc	I	276	
8167	SULPHUR OLIVE	S	110	
	SULPHUR BRONZE		15,152	1,392
8168	Sulphur Bronze 136	Lev		
8169	Sulphur Bronze 158	Lev		
	SULPHUR BROWN		5,850	370
8170	Sulphur Brown 527	Lev		
8171	Sulphur Brown 731	Lev		
	SULPHUR GREEN		2,971	336
8172	Sulphur Green 309	Lev		
8173	Sulphur Green 330	Lev		
8174	CROSS DYE BLUE FR conc. 10 per cent	H	100	
	CROSS DYE BROWN		1,547	145
8175	Cross Dye Brown 2 D	H		
8176	Cross Dye Brown 4 R	H		
	CROSS DYE DRAB		15,758	1,324
8177	Cross Dye Drab N conc	H		
8177	Cross Dye Drab N 35 per cent	H		
	CROSS DYE YELLOW		2,164	394
8178	Cross Dye Yellow D	H		
8179	Cross Dye Yellow R	H		
8180	Cross Dye Yellow Y 30 per cent	H		
8181	CROSS DYE GREEN G conc	H	100	

XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
	A. SIRIUS YELLOW AND RELATED COLORS.			
758	**SIRIUS YELLOW G (for lakes)**.....1908 Condensation of naphthoyl-benzoic acid by means of concentrated sulphuric acid. Naphthanthraquinone: $C_6H_4\{^{-CO-}_{-CO-}\}C_{10}H_6$	B	0	
759	**ANTHRAFLAVONE G paste**.....1905 Condensation of 2 molecules of β-methyl-anthraquinone. $C_6H_4\{^{-CO-[1]}_{-CO-[2]}\}C_6H_3[5]CH=CH[5]C_6H_3\{^{[1]-CO-}_{[2]-CO-}\}C_6H_4$	B	7,143	
760	**INDANTHRENE GOLD ORANGE G paste**.....1905 Pyranthrene, pyranthrone.—Elimination of 2 molecules of water from 2.2'-dimethyl-1.1'-dianthraquinonyl.	B	20,092	
761	**INDANTHRENE GOLD ORANGE R**.....1909 Chlorinated pyranthrone.	.....	56,496	$32,053
	Indanthrene Gold Orange R paste.....	B		
	Indanthrene Gold Orange RS powder.....	B		
	Indanthrene Gold Orange 2 RT paste.....	B		
762	**INDANTHRENE SCARLET GS powder**.....1909 Dibromo-pyranthrone.	B	99	
763	**INDANTHRENE DARK BLUE BO paste**.....1906 Violanthrene.—Condensation of 2 molecules of benzanthrone.	B	11,096	
764	**INDANTHRENE VIOLETS RT**.....1905 Halogen derivatives of No. 763.	B	0	
765	**INDANTHRENE GREEN B paste**.....1906 Viridanthrene B.—Nitro derivative of No. 763.	B	72,227	
765a	**INDANTHRENE BLUE GREEN B paste**.....	B	24	
766	**INDANTHRENE VIOLET R extra paste**.....1908 Isoviolanthrone.—Fusion of halogen derivatives of benzanthrone with caustic alkalies.	B	1,590	
767	**INDANTHRENE VIOLET RR**.....1909 Dichloro-isoviolanthrone.	.....	68,419	21,516
	Indanthrene Violet RR extra powder.....	B		
	Indanthrene Violet RR extra paste.....	B		
	Indanthrene Violet RR extra P powder.....	B		
	Indanthrene Violet RR extra P paste.....	B		
768	**INDANTHRENE VIOLET B**.....1909 Dibromo-isoviolanthrone.	B	0	
768a	**INDANTHRENE BLACK**..... Chlorination of Indanthrene Green.	.....	50,034	12,576
	Indanthrene Black B paste (S.; Kal. 1914; R. 80).....1909	B		
	Indanthrene Black BB double paste.....	B		
	B. OXYKETONE COLORS AND RELATED COLORS.			
769	**ALIZARIN YELLOW C**.....1881 Gallacetophenone (trioxyacetophenone).	B	0	
770	**ALIZARIN YELLOW A**.....1889 Trioxy-benzophenone.	B	0	
771	**RESOFLAVIN W**.....1895 Oxidation of m-dioxy-benzoic acid.	B	0	
772	**GALLOFLAVIN W paste**.....1886 Moderate oxidation of gallic acid.	B	838	

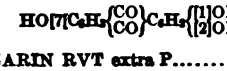
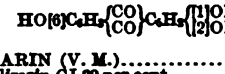
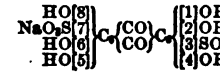
XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
773	ANTHRACENE YELLOW.....1889 Dibromo-dioxy-β-methyl-coumarin.  Galloflavin and anthracene yellow are not coal-tar colors by derivation, although falling naturally, by classification, into Group XVI.	By	3,393	
773a	ANTHRACENE YELLOW G.....	I	1,653	
774	ALIZARIN BLACK.....1861 Sodium bisulphite compound of naphthazarin (dioxy-naphthoquinone).  Alizarin Black S paste..... Alizarin Black S powder..... Alizarin Black SR paste..... Alizarin Black WR paste.....	..... B B B B	136,461	89,936
774a	ALIZARIN BLUE BLACK (V. M.)..... Alizarin Blue Black GT powder..... Alizarin Blue Black B.....	..... B C	1,550	434
774b	ALIZARIN BLACK (V. M.)..... Alizarin Black B..... Alizarin Black B powder..... Alizarin Black B powder conc..... Alizarin Black 3 B powder..... Alizarin Black IA..... Alizarin Black 27 B 1231. (Current marks, 4 B, 6 B, 7 B, 4 BS, 7 BS, CR, D, EFF, ES 35, ES 5 B, ES 85, ESN, ESS, JH, 19 J, NBB, OO, RNB, S, S 2 O, SS 2 B, SS 3 B, T, TJ, TN, X 2 B, X 3 B.)..... Alizarin Black 25 D 1183..... Alizarin Black 4 W 568..... Alizarin Black 8 B..... Alizarin Black AB..... Alizarin Black AB.....	..... By By By By By C C C AW AW CV	61,187	19,239
774c	ALIZARIN MILLING BLACK 8 B.....	AW	1,545	
774d	ALIZARIN GRAY.....	C	4,696	
775	ALIZARIN DARK GREEN W.....1897 Action of phenols upon naphthazarin.	B	0	
776	PRINTING BLACK, FOR WOOL.....1896 Reduction of a mixture of 1.5- and 1.8-dinitro-naphthalene by means of glucose, in alkaline solution, in presence of sodium sulphite.	B	0	
777	CHROMOGENE I.....1892 Sodium chromotropate. (Sodium salt of 1.8-dioxy-naphthalene-3.6-disulphonic acid.)	M	0	
778	ALIZARIN (synthetic)..... α-β-Dioxyanthraquinone.  Alizarin V 1 extra pure (for lakes)..... Alizarin V 1 extra pure 20 per cent (for lakes)..... Alizarin V 2 A blue shade D 20 per cent..... Alizarin V 3 W 20 per cent paste..... Alizarin IB extra (for lakes)..... Alizarin IP..... Alizarin 11 AB..... Alizarin 11 X..... Alizarin D 1140 paste.....	..... B B B B By By By By M	208,392	20,465

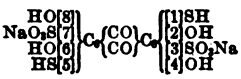
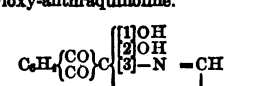
XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
778	ALIZARIN—Continued.			
	Alizarin D 1149 paste	M		
	Alizarin D 1399 20 per cent	M		
	Alizarin I paste	M		
	Alizarin IB paste 20 per cent	M		
	Alizarin IT paste 20 per cent	M		
	Alizarin 1140	M		
	Alizarin 744 20 per cent	M		
	Alizarin paste	Br. Aliz. Co.		
	Alizarin powder	Br. Aliz. Co.		
779	ALIZARIN ORANGE.....1874	.....	14,230	$3,12
	β-Nitroalizarin.			
	$C_6H_4\begin{cases}CO\\CO\end{cases}C_6H\begin{cases}[1]OH\\[2]OH\\[3]NO_2\end{cases}$			
	Alizarin Orange A paste 15 per cent	B		
	Alizarin Orange R powder	By		
	Alizarin Orange powder 20 per cent	M		
	Alizarin Orange DG	M		
	Alizarin Orange DN	M		
	Alizarin Orange GR	M		
780	ALIZARIN RED.....1871	.....	53,154	24,76
	Sodium salt of alizarin-sulphonic acid.			
	$C_6H_4\begin{cases}CO\\CO\end{cases}C_6H\begin{cases}[1]OH\\[2]OH\\[3]SO_3Na\end{cases}$			
	Alizarin Red SWB powder	B		
	Alizarin Red SWBB powder	B		
	Alizarin Red SWR powder	B		
	Alizarin Red WB powder	B		
	Alizarin W	By		
	Alizarin W powder	By		
	Alizarin Red IWS	M		
	Alizarin IWS powder	M		
	Alizarin powder	Q		
780a	ALIZARIN RED (V. M.)	.....	28,775	3,76
	Alizarin Red D 4 B conc. 50 per cent red	M		
	Alizarin Red D 4 B conc	M		
	Alizarin Red D 10 B	M		
	Alizarin Red DG	M		
	Alizarin Red G	M		
	Alizarin Red (yellow)	M		
781	ERWECO ALIZARIN ACID RED SB.....1903	RW& Co.	0	
	Sodium salts of alizarin-5-sulphonic acid and alizarin-8-sulphonic acid.			
782	ALIZARIN BROWN.....1877	.....	110,211	30,90
	Trioxy-anthraquinone.			
	$C_6H_4\begin{cases}CO\\CO\end{cases}C_6H\begin{cases}[1]OH\\[2]OH\\[3]OH\end{cases}$			
	Anthracene Brown paste	B		
	Anthracene Brown SW powder	B		
	Alizarin Brown powder	M		
	Alizarin Brown paste 20 per cent	M		
	Alizarin Brown B	M		
	Alizarin Brown D 3 GO	M		
	Alizarin Brown DR	M		
	Alizarin Brown N paste 20 per cent	M		
	Alizarin Brown RR	M		
	Anthracene Brown RH	H		
	Alizarin Brown O	Q		
782a	ANTHRACENE BROWN (V. M.)	.....	5,375	2,58
	Anthracene Brown G	By		
	Anthracene Brown R powder	By		
	Anthracene Brown VV	By		

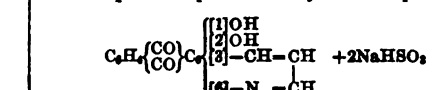
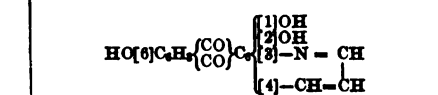
XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
783	PURPURIN (synthetic)....1874 Trioxy-anthraquinone, -1.2.4.	B	0	
784	ALIZARIN SX, GD....1873 Isopurpurin. 	B	0	
784a	ALIZARIN RVT extra P....	By	9,586	
784b	ALIZARIN S powder....	By	4,687	
785	ALIZARIN RG, G 1....1876 Flavopurpurin. 	B	0	
785a	ALIZARIN (V. M.)....	....	49,021	$5,379
	Alizarin GI 20 per cent....	B		
	Alizarin GGX....	By		
	Alizarin XGP....	By		
	Alizarin XP....	By		
	Alizarin SDG 20 per cent....	M		
786	ALIZARIN RED 3 WS....1886 Sodium salt of flavopurpurin-sulphonic acid.	M	0	
787	ALIZARIN BORDEAUX B, BD....1890 Tetraoxy-anthraquinone, -1.2.5.8.	By	0	
788	ALIZARIN CYANINE R....1890 Chiefly a pentaoxy-anthraquinone, -1.2.3.5.8.	By	0	
789	ANTHRACENE BLUE WR....1891 Hexaoxy-anthraquinone. 	....	107,778	13,622
	Anthracene Blue WR powder....	B		
	Anthracene Blue WR paste....	B		
	Anthracene Blue W 3 R paste....	B		
790	ACID ALIZARIN BLUE BB, GR....1891 Sodium salt of hexaoxy-anthraquinone-disulphonic acid. 	M	0	
790a	ANTHRACENE BLUE (V. M.)....	....	22,444	7,174
	Anthracene Blue SWG powder....	B		
	Anthracene Blue SWGG powder....	B		
	Anthracene Blue SWGG extra....	B		
	Anthracene Blue SWR powder....	B		
	Anthracene Blue WN paste....	B		
790b	ANTHRACENE DARK BLUE W paste (S.). (An impure Anthracene Blue.)....	B	4,198	
	C. SULPHUR DERIVATIVES OF ANTHRAQUINONE.			
791	INDANTHRENE OLIVE G....1909 Fusion of anthracene with sulphur.	B	0	
792	CIBANONE ORANGE R....1908 Fusion of 2-methyl-anthraquinone with sulphur and subsequent treatment with sodium hypochlorite.	I	0	
792a	CIBANONE GREEN G paste (Kal. 1914)....	I	51	
792b	CIBANONE OLIVE....	....	322	137
	Cibanone Olive B paste (Kal. 1914)....	I		
	Cibanone Olive G paste (Kal. 1914)....	I		

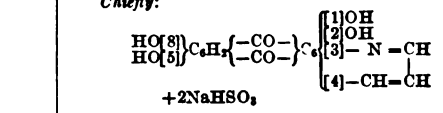
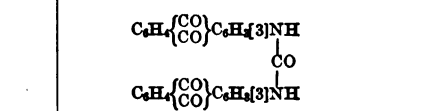
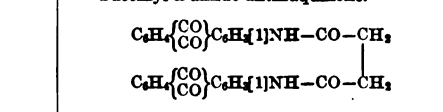
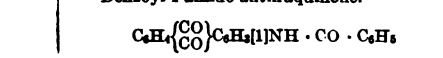
XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
793	CIBANONE BLUE 3 G.....1908 Fusion of methyl-benzanthrone with sulphur.	I	0	
794	CIBANONE BLACK.....1908 Fusion of methyl-benzanthrone with sulphur.	.....	2,902	$574
	Cibanone Black BG paste 10 per cent.....	I		
	Cibanone Black 2 G powder (Kal. 1914).....	I		
795	CIBANONE YELLOW R paste 10 per cent.....1908 A sulphur derivative of anthraquinone.	I	298	
796	ACID ALIZARIN GREEN B, G.....1903 Sodium salt of disulphydro-tetraoxy-anthraquinone-disulphonic acid.	M	0	
				
796a	ACID ALIZARIN GREEN 3 G (S.; Kal. 1912).....	I	1,157	
	D. AMIDO-ANTHRAQUINONE AND RELATED COLORS.			
797	ALIZARIN GARNET.....1877 α-Amido-alizarin.	.....	720	181
				
	Alizarin Garnet R.....	M		
	Alizarin Garnet.....	AW		
798	ALIZARIN MAROON W.....1885 Various amido-alizarins (α-, β-, γ-), mixed with amido-purpurin.	B	0	
799	ALIZARIN CYANINE G.....1890 Imide of tri- or tetra-oxy-anthraquinone.	By	0	
800	ANTHRACENE BLUE.....1891 Successive action of fuming sulphuric acid and of ordinary sulphuric acid upon 1.5-dinitro-anthraquinone, with or without the presence of a reducing agent (e. g., sulphur).	.....	54,712	9,226
	Anthracene Blue WB paste.....	B		
	Anthracene Blue WG.....	B		
	Anthracene Blue WG paste.....	B		
800a	ANTHRACENE BLUE 3 G.....	M	100	
801	ANTHRACENE BLUE WGG.....1897 Sodium salt of diamido-dioxy-anthraquinone-sulphonic acid.	B	0	
802	ANTHRACENE BLUE new WG.....1899 Long heating of Anthracene Blue with caustic soda and ammonia in a closed vessel.	B	0	
803	ALIZARIN BLUE WX, A.....1879 Dioxy-anthraquinoline.	.....	16,575	6,452
				
	Alizarin Blue WX 20 per cent.....	B		
	Alizarin Blue WX 10 per cent.....	B		
	Alizarin Blue A paste.....	M		
803a	ALIZARIN BLUE (V. M.).....	.....	302,319	69,712
	Alizarin Blue A powder.....	By		
	Alizarin Blue AS.....	By		
	Alizarin Blue BR powder.....	By		
	Alizarin Blue BR 3 G powder.....	By		
	Alizarin Blue GWDS.....	By		
	Alizarin Blue HJ.....	By		
	Alizarin Blue IIX.....	By		
	Alizarin Blue JR powder.....	By		

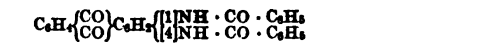
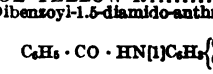
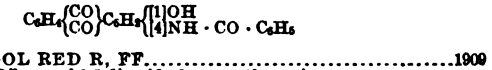
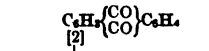
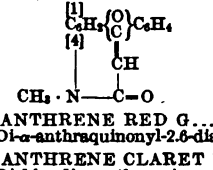
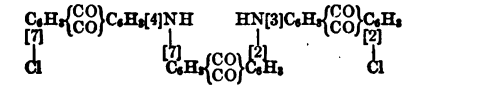
XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
803a	ALIZARIN BLUE—Continued.			
	Alizarin Blue NFA	By		
	Alizarin Blue NHN	By		
	Alizarin Blue NS powder	By		
	Alizarin Blue NSG powder	By		
	Alizarin Blue NGS extra	By		
	Alizarin Blue 67 X 2261	C		
	Alizarin Blue Y 2262	C		
	Alizarin Blue B paste	M		
	Alizarin Blue BB	M		
	Alizarin Blue DB	M		
	Alizarin Blue DH 6 GM	M		
	Alizarin Blue DN	M		
	Alizarin Blue D 2 R	M		
	Alizarin Blue D 4 R	M		
	Alizarin Blue GR paste	M		
	Alizarin Blue GW powder	M		
	Alizarin Blue (violet shade) P	S		
	Alizarin Blue (violet shade)	S		
	Alizarin Blue B paste	Q		
803b	ALIZARIN CHROME BLUE T powder	S	800	
804	ALIZARIN BLUE S.....1881	.....	79,679	$69,871
	Sodium bisulphite compound of dioxy-anthra-β-quinoline			
	Alizarin Blue powder	By		
	Alizarin Blue SAE powder	By		
	Alizarin Blue SAP powder	By		
	Alizarin Blue SAWBA powder	By		
	Alizarin Blue SRM powder (Kal. 1914)	M		
	Alizarin Blue SRM paste	M		
804a	ALIZARIN BLUE (V. M.)	.....	12,400	6,158
	Alizarin Blue SB paste	M		
	Alizarin Blue SB powder	M		
	Alizarin Blue SB powder	M		
	Alizarin Blue 942	M		
	Alizarin Blue 942 paste	M		
804b	ALIZARIN DARK BLUE	.....	6,300	3,177
	Alizarin Dark Blue S	M		
	Alizarin Dark Blue DR	M		
804c	ALIZARIN SKY BLUE B powder	By	19,471	
805	ALIZARIN GREEN S.....1892	.....	15,885	2,497
	Bisulphite compound of dioxy-anthra-α-quinoline.			
				
	Alizarin Green 3 G	M		
	Alizarin Green S powder	M		
	Alizarin Green SW	M		
	Alizarin Green WB	M		
	Alizarin Green BB	M		
	Alizarin Green DGN	M		
	Alizarin Green DMA	M		
806	ALIZARIN BLACK P.....1892	M	0	
	Flavopurpurin-quinoline.			
				
806a	ALIZARIN BLACK (V. M.)	.....	229,500	33,275
	Alizarin Black AC	M		
	Alizarin Black DCR	M		
	Alizarin Black DES	M		
	Alizarin Black EN	M		
	Alizarin Black ENT conc	M		
	Alizarin Black R 15 per cent red	M		
	Alizarin Black R 20 per cent red	M		
	Alizarin Black R 30 per cent red	M		

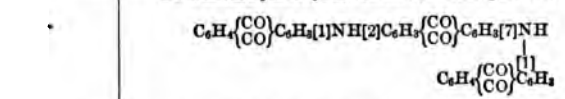
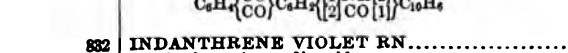
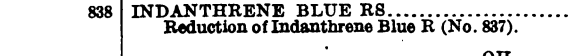
XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
807	ALIZARIN BLACK S.....1892 Bisulphite compound of Alizarin Black P.	.....	198,491	$19,9
	Alizarin Black SE paste	M		
	Alizarin Black SE powder 15 per cent red	M		
	Alizarin Black SET powder 15 per cent red	M		
	Alizarin Black SET powder	M		
	Alizarin Black SN	M		
	Alizarin Black SNT	M		
807a	PATENT ALIZARIN BLACK	.....	61,500	10,0
	Patent Alizarin Black DEB extra conc	M		
	Patent Alizarin Black DFF conc	M		
	Patent Alizarin Black DFFA conc	M		
808	ALIZARIN GREEN S paste.....1888 Mixture of the bisulphite compounds of tri- and tetra-oxy-anthraquinone-quinoline and their sulphonic acids. *Chiefly:*  $+2NaHSO_3$	B	11,096	
808a	ALIZARIN GREEN (V. M.)	.....	124,095	58,49
	Alizarin Green C	By		
	Alizarin Green CE	By		
	Alizarin Green CG extra powder	By		
	Alizarin Green CK powder	By		
	Alizarin Green SP 4	By		
	Alizarin Green V	By		
	Alizarin Green V conc. 27872	By		
	Alizarin Green VD	By		
809	ALIZARIN INDIGO BLUE S.....1888 Mixture of the bisulphite compounds of tetra- and penta-oxy-anthraquinone-quinoline and their sulphonic acids.	B	0	
810	HELINDONE YELLOW 3 GN.....1910 2.2'-Dianthraquinonyl-urea. 	M	0	
810a	HELINDONE YELLOW (V. M.)	.....	20,744	6,954
	Helindone Yellow CG paste (S.; Kal. 1913)	M		
	Helindone Yellow CG (vat)	M		
	Helindone Yellow CG powder	M		
	Helindone Yellow RN paste.....1913	M		
811	ALGOL YELLOW 3 G.....1908 Succinyl-α-amido-anthraquinone. 	By	1,598	
811a	ALGOL YELLOW 6 GL lumps (Kal. 1914)	By	11	
812	INDANTHRENE ORANGE RT paste.....1907 Action of phosphorus oxychloride upon equal molecules of 2-acet-amido-anthraquinone and 1.6- (or 1.7-) diacet-amido-anthraquinone.	B	2,103	
813	INDANTHRENE COPPER R paste.....1907 Action of phosphorus oxychloride upon equal molecules of 1-acet-amido-anthraquinone and 1.6- (or 1.7-) diacet-amido-anthraquinone.	B	1,268	
814	ALGOL YELLOW WF.....1910 Benzoyl-1-amido-anthraquinone. 	By	5,185	

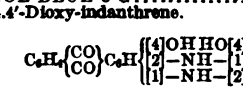
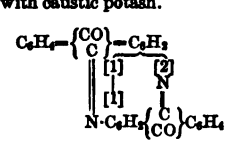
XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
815	ALGOL SCARLET G....1910 Benzoyl-1-amido-4-methoxy-anthraquinone.	By	0	
816	ALGOL RED 5 G powder....1910 Dibenzoyl-1.4-diamido-anthraquinone. 	By	42	
816a	ALGOL RED (V. M.).... Algol Red 2 G (Kal. 1914).... Algol Red 3 G....	.... By By	1,298	2341
817	ALGOL YELLOW R....1909 Dibenzoyl-1.5-diamido-anthraquinone. 	By	4,887	
818	ALGOL PINK R powder....1910 Benzoyl-4-amido-1-oxy-anthraquinone. 	By	126	
819	ALGOL RED R, FF....1909 Dibenzoyl-1.5-diamido-8-oxy-anthraquinone.  Algol Brilliant Red 2 B powder.... Algol Red FF.... Algol Red R extra....	.... By By By	2,322	494
820	ALGOL BRILLIANT VIOLET R....1910 Succinyl-diamido-anthrarufin. (?)	By	12,784	
821	ALGOL BRILLIANT VIOLET 2 B....1910 Dibenzoyl-diamido-anthrarufin. Algol Brilliant Violet 2 B.... Algol Blue 3 RP (S.)....1910	.... By By	3,893	1,073
822	ALGOL BRILLIANT ORANGE FR....1910 Benzoyl-1.2.4-triamido-anthraquinone. (?)	By	6,195	
823	ALGOL VIOLET B....1910 Benzoyl-1-amido-4.5.8-trioxy-anthraquinone.	By	0	
824	ALGOL ORANGE R....1908 α-β-Dianthraquinonyl-amine. 	By	51	
825	ALGOL RED B....1907 β-Anthraquinone-α-anthra-N-methyl-pyridone-amine. 	By	2,399	
826	INDANTHRENE RED G....1907 Di-α-anthraquinonyl-2.6-diamido-anthraquinone.	B	0	
827	INDANTHRENE CLARET B extra paste....1906 Dichlor-di-α-anthraquinonyl-2.7-diamido-anthraquinone. 	B	28,728	

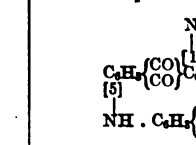
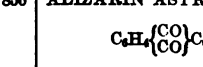
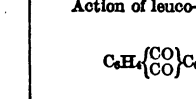
XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
828	INDANTHRENE CLARET B.....1906 Di-β-anthraquinonyl-1.5-diamido-anthraquinone.	B	0	
829	ALGOL BORDEAUX 3 B.....1909 4.4′-Dimethoxy-di-α-anthraquinonyl-2.6-diamido-anthraquinone.	By	0	
830	INDANTHRENE RED R paste.....1907 Di-α-anthraquinonyl-2.7-diamido-anthraquinone. 	B	2,099	
831	INDANTHRENE RED BN extra paste.....1911 Anthraquinone-naphthacridone. 	B	6,056	
832	INDANTHRENE VIOLET RN.....1910 Anthraquinone-di-acridone.  Indanthrene Violet RN powder..... Indanthrene Violet RN extra paste.....	..... B B	11,667	$5,181
833	ALGOL OLIVE R.....1910 Action of chloro-sulphonic acid upon dibenzoyl-p.p-diamido-α-α′-dianthraquinone-imide.	By	13,334	
834	ALGOL GRAY.....1909 Action of reducing agents, such as sodium sulphide, upon nitrated αα -anthrimide. Algol Gray B..... Algol Gray BB.....	..... By By	4,192	1,054
835	HELINDONE ORANGE GRN.....1912 Condensation of pure anthraquinonyl-urea chloride.	M	0	
836	HELINDONE BROWN 3 GN.....1910 Action of anthraquinone-carbamic chloride upon a mixture of various diamido-anthraquinones.	M	0	
837	INDANTHRENE BLUE R.....1901 N-Dihydro-1.2-1′.2′-anthraquinone-azine. 	B	0	
837a	INDANTHRENE FAST BLUE RR.....	B	500	
838	INDANTHRENE BLUE RS.....1901 Reduction of Indanthrene Blue R (No. 837).  Indanthrene Blue RS..... Indanthrene Blue RS (for paper) paste..... Indanthrene Blue RS (for paper) powder..... Indanthrene Blue RS (for paper) powder triple.....	..... B B B B	187,379	56,532
839	ALGOL BLUE K.....1904 N-Dimethyl-indanthrene. 	By	150	

XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Value.
840	INDANTHRENE BLUE 3 G.....1910 Oxy-indanthrone. (?) Treatment of indanthrene with boric and sulphuric acids. Indanthrene Blue 3 G paste..... Indanthrene Blue 3 GP powder.....	..... B B	6,120	$1,988
841	INDANTHRENE BLUE GGS.....1908 Indanthrene Blue GGS..... Indanthrene Blue GGS (for paper) powder..... Indanthrene Blue GGSL 23113 powder.....	..... B B B	10,163	4,284
842	INDANTHRENE BLUE GCD paste.....1903 Dichloro-indanthrene.	B	473,988	
843	INDANTHRENE BLUE GC paste.....1902 Dibromo-indanthrene.	B	1,499	
844	ALGOL BLUE 3 G.....1905 4.4'-Dioxy-indanthrene. 	By	5,994	
844a	ALGOL BLUE G.....	By	3,197	
845	INDANTHRENE MAROON R.....1904 Diamido-anthraquinones are treated with formaldehyde, and the product is fused with caustic potash.	B	0	
846	INDANTHRENE DARK BLUE BT.....1905 Fusion with caustic alkalies of benzanthrone-quinoline.	B	0	
847	ALGOL GREEN B.....1904 Derived from 2.3-dibromo-1.4-diamido-anthraquinone.	By	0	
847a	ALGOL DARK GREEN B (S.; 1908).....	By	2,796	
848	INDANTHRENE GRAY BP powder.....1904 Fusion with caustic potash of diamido-anthraquinones, and of their sulphonic acids.	B	401	
849	INDANTHRENE YELLOW.....1901 Flavanthrene. Obtained by fusing β-amido-anthraquinone with caustic potash.  Indanthrene Yellow G paste..... Indanthrene Yellow GP powder.....	..... B B	13,683	4,253
849a	INDANTHRENE VIOLET YELLOW..... Indanthrene Violet Yellow G paste..... Indanthrene Violet Yellow P paste.....	..... B B	62,500	20,738
850	INDANTHRENE BLUE WB.....	B	1,299	
850a	INDANTHRENE BLUE WR paste.....	B	31,658	
851	ALIZARIN DIRECT BLUE B.....1903 Mixture of derivatives from 1.8-amido-anthraquinone-sulphonic acid. *Typical component:* 	M	0	
851a	ALIZARIN DIRECT BLUE (V. M.)..... Alizarin Direct Blue EB (S.; Kal. 1910; R. 57)..... Alizarin Direct Blue ESB..... Alizarin Direct Blue ESR..... Alizarin Direct Blue ESR conc.....	..... M M M M	10,201	11,578

XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
852	ALIZARIN IRISOL D, R.....1903 Action of p-toluidine upon quinizarin, and subsequent sulphonation.	.....	0	
853	ANTHRAQUINONE VIOLET powder.....1898 Action of p-toluidine upon 1.5-dinitro-anthraquinone, and subsequent sulphonation. 	B	1,202	
854	ALIZARIN VIRIDINE DG, FF.....1894 Action of p-toluidine upon 1.2.5.8-tetraoxy-anthraquinone (Alizarin Bordeaux, No. 787), and subsequent sulphonation.	By	0	
855	ALIZARIN PURE BLUE B.....1904 Action of p-toluidine upon dibromo-α-amido-anthraquinone, and subsequent sulphonation.	By	0	
856	ALIZARIN ASTROL..... 	By	0	
856a	ALIZARIN RUBINOL.....	.....	10,917	$11,826
	Alizarin Rubinol 5 G (S.; Kal. 1912).....	By		
	Alizarin Rubinol R powder (S. 1907).....	By		
857	ERWECO ALIZARIN ACID BLUE R.....1908 Disulpho-dianilido-anthraflavic acid.	RWCo	0	
858	ALIZARIN SAPHIROL B.....1897 Sodium salt of diamido-anthrarufin-disulphonic acid.	By	0	
859	CYANANTHROL R.....1902 Derived from methyl-anthraquinone.	.....	18,792	27,555
	Cyananthrol R powder.....	B		
	Cyananthrol RB.....	B		
	Cyananthrol RXO.....	B		
860	CYANANTHROL G.....1904 Derived from methyl-anthraquinone.	B	0	
861	ANTHRAQUINONE BLUE SR.....1898 Action of aniline, or its homologues, upon tetrabromo-diamido-anthraquinone, and subsequent sulphonation.	B	0	
862	ALIZARIN BLUE BLACK.....1895 Sulphonation of the condensation product of aniline and purpurin.	.....	54,706	61,370
	Alizarin Blue Black 3 B.....	By		
	Alizarin Blue Black B (S.; Kal. 1911).....	M		
	Alizarin Blue Black 3 B powder.....	M		
	Alizarin Blue Black B powder.....	CV		
	Alizarin Blue Black B powder.....	Q		
863	ANTHRAQUINONE BLUE GREEN.....1908	.....	6,552	5,525
	Anthraquinone Blue Green BXO powder.....	B		
	Anthraquinone Blue Green BXO paste.....	B		
864	ANTHRAQUINONE GREEN GXNO powder.....1908	B	1,709	
865	ALIZARIN DIRECT GREEN G.....1894 Action of leuco-quinizarin upon 4-toluidine-2-sulphonic acid. 	M	2,000	
866	LEUCO DARK GREEN B.....1907 Action of aluminum upon a solution in sulphuric acid of 1-methyl-amido-anthraquinone.	By	0	

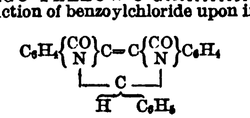
XVI. ANTHRAQUINONE AND ALLIED COLORING MATTERS—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
867	INDANTHRENE BROWN.....1907 Action of copper on the solution of 2-amido-anthraquinone in sulphuric acid.	.....	6,175	$1,304
	Indanthrene Brown B double paste.....	B		
	Indanthrene Brown paste (S. 1912).....	B		
868	CIBANONE BROWN V paste.....1909 Fusion with sulphur of 1-amido-2-methyl-anthraquinone.	I	300	
869	ALGOL BROWN B.....1910	By	0	
869a	ALGOL BROWN R (S. 1913).....	By	1,596	
870	ALGOL CORINTH R.....1910	By	0	
872	LEUCOL BROWN B.....1907 Sulphonation of anthranol.	By	0	
873	HELINDONE BROWN AN.....1908 Fusion with caustic potash of α-α-dianthraquinonyl-1.4-di-amido-anthraquinone.	M	0	
873a	INDANTHRENE NN.....	B	450	
873b	INDANTHRENE PINK B.....	B	602	
873c	INDANTHRENE RED BROWN R paste.....	B	99	
873d	INDANTHRENE RED VIOLET RRN (S.; Kal. 1913).....	B	1,680	

XVII. INDIGO AND ITS DERIVATIVES.

874	INDIGO, SYNTHETIC.....1894 Indigotin. $C_6H_4\begin{cases}-NH-\\-CO-\end{cases}C=C\begin{cases}-NH-\\-CO-\end{cases}C_6H_4$	.....	8,507,359	$1,090,773
	Indigo Synthetic.....	B		
	Indigo FBP paste.....	By		
	Indigo 7 G paste.....	By		
	Indigo NC paste.....	By		
	Indigo Blue N.....	C		
	Indigo Synthetic MLB.....	M		
	Indigo MLB powder.....	M		
	Indigo solution.....	M		
	Indigo paste.....	I		
	Indigo paste.....	I		
	Indigo Blue 275.....	CJ		
	Indigo powder.....	Q		
875	INDIGO SALT T.....1892 o-Nitro-phenyl-lactic-methyl-ketone.	K	0	
876	INDIGO WHITE BASE.....1805 Leucindigotin. $C_6H_4\begin{cases}[1]NH-\\[2]CO-\end{cases}CH \cdot CH\begin{cases}-NH[1]\\-CO[2]\end{cases}C_6H_4$	B	0	
877	INDIGO EXTRACT.....1740 Sodium salt of indigotin-disulphonic acid, or the free acid. $C_6H_3(SO_3Na)\begin{cases}-NH-\\-CO-\end{cases}C=C\begin{cases}NH\\CO\end{cases}C_6H_3(SO_3Na)$	.....	19,322	6,977
	Indigotin 500.....	A		
	Indigo Extract A.....	B		
	Indigo Extract AN 4.....	B		
	Indigotin I.....	B		
	Indigotin.....	WD		
	Indigotin.....	I		
878	INDIGOTIN P..... Sodium salt of indigotin-tetrasulphonic acid.	B	0	

XVII. INDIGO AND ITS DERIVATIVES—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation. Pounds.	Importation. Value.
879	INDIGO MLB 1903	....	53,610	$11,604
	Mixtures of indigo-5-bromo-indigo and 5.5′-dibromo-indigo.			
	Indigo MLB R	M		
	Indigo MLB R paste	M		
880	INDIGO RB 1907	....	6,856	2,314
	5.5′-Dibromo-indigo, with varying amounts of 5.7.5′-tribromo-indigo and 5.7.5.′7′-tetrabromo indigo.			
	Indigo RB pure	B		
	Indigo MLB 2 B	M		
	Ciba Blue B powder	I		
881	CIBA BLUE 2 B 1907	....	16,880	7,423
	5.7.5.′7′-Tetrabromo-indigo.			
	$C_6H_2Br_2\left\{\begin{matrix}NH\\CO\end{matrix}\right\}C=C\left\{\begin{matrix}NH\\CO\end{matrix}\right\}C_6H_2Br_2$			
	Ciba Blue 2 B powder	I		
	Ciba Blue 2 B paste 51 per cent	I		
	Ciba Blue 2 BD paste 16 per cent	I		
882	CIBA BLUE G 1909	....	1,356	1,608
	Mixtures of 5.7.5.′7′-tetrabromo-indigo and 4.5.7.5.′7′-pentabromo-indigo.			
	Ciba Blue G powder	I		
	Ciba Blue G 50 per cent	I		
	Ciba Blue G 2 B powder	I		
883	INDIGO KG 1909	....	3,191	2,973
	4.5.7.4.′5.′7′-Hexabromo-indigo is the chief component.			
	Indigo KG paste	K		
	Indigo KG powder	K		
	Indigo in paste	K		
	Indigo MLB 6 B powder	M		
	Indigo MLB 6 B	M		
884	BRILLIANT INDIGO BBD paste 1910	B	4,518	
	5.7.5.′7′-Dichloro-dibromo-indigo.			
885	BRILLIANT INDIGO BD paste 1910	B	8,175	
	5.7.5.′7′-Tetrachloro-indigo.			
	$C_6H_2Cl_2\left\{\begin{matrix}CO\\NH\end{matrix}\right\}C=C\left\{\begin{matrix}CO\\NH\end{matrix}\right\}C_6H_2Cl_2$			
886	BRILLIANT INDIGO GD 1910	....	12,057	1,747
	4.5.4′.5′-Tetrahalogen-indigo mixed with 5.7.5.′7′-tetrahalogen-indigo.			
	Brilliant Indigo GD paste	B		
	Brilliant Indigo 4 GD paste	B		
887	BRILLIANT INDIGO 4 G 1910	B	0	
	4.5.4.′5′-Dichloro-dibromo-indigo.			
888	INDIGO MLB T 1898	....	10,730	1,596
	7.7′-Dimethyl-indigo.			
	$C_6H_3\left\{\begin{matrix}[1]CH_3\\ [2]-NH\\ [3]-CO\end{matrix}\right\}C=C\left\{\begin{matrix}H_3C[1]\\NH-[2]\\CO-[3]\end{matrix}\right\}C_6H_3$			
	Dimethyl-indigo	M		
	Indigo G paste	B		
889	INDIGO YELLOW 3 G 1910	I	0	
	Action of benzoylchloride upon indigo.			
				
890	CIBA YELLOW G powder 1911	I	48	
	Brominated Indigo Yellow 3 G (No. 889).			

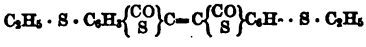
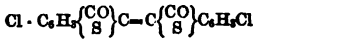
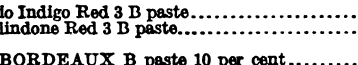
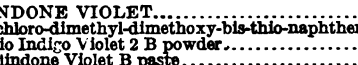
XVII. INDIGO AND ITS DERIVATIVES—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
891	CIBA GREEN.....1908 Dibromo-bis-β-naphthindole-indigo. $C_{10}H_5Br\{^{CO}_{NH}\}C=C\{^{CO}_{NH}\}C_{10}H_5Br$	.....	119	$176
	Ciba Green G paste.....	I		
	Ciba Green G powder.....	I		
892	HELINDONE GREEN G.....1909 Brominated bis-β-naphthindole-indigo.	M	0	
893	ALIZARIN INDIGO G.....1909 2-Anthracene-2-indole-dibromo-indigo. $C_{14}H_8\{^{=O}_{=C}\{^{CO}_{NH}\}C_6H_2Br_2$	By	0	
894	ALIZARIN INDIGO B.....1911	By	0	
894a	ALIZARIN INDIGO GREEN B.....	By	201	
894b	ALIZARIN INDIGO VIOLET B.....	By	201	
895	ALIZARIN INDIGO 3 R.....1910	By	0	
896	HELINDONE BLUE 3 GN.....1913 Condensation of oxy-anthranol with isatin-anilide.	M	0	
896a	HELINDONE BLUE 3 R paste.....	M	622	
897	CIBA HELIOTROPE B.....1907 Tetrabromo-indirubin.	I	0	
898	HELINDONE VIOLET D.....1910 Brominated 7-methyl-indirubin.	M	0	
899	CIBA GRAY.....1910 Monobromo-2-thio-naphthene-2-indole-indigo. $C_6H_4\{^{CO}_{S}\}C=C\{^{CO}_{NH}\}C_6H_3Br$	.....	675	483
	Ciba Gray B powder.....	I		
	Ciba Gray B 20 per cent paste.....	I		
	Ciba Gray G powder.....	I		
	Ciba Gray G 20 per cent paste.....	I		
900	CIBA VIOLET 3 B.....1906 Dibromo-2-thio-naphthene-2-indole-indigo. Thio Indigo Violet K (S.).....	.....	2,667	820
	Ciba Violet 3 B powder.....	I		
	Ciba Violet 3 B paste.....	I		
901	CIBA VIOLET B.....1906 Tribromo-2-thio-naphthene-2-indole-indigo. $C_6H_3Br\{^{CO}_{S}\}C=C\{^{CO}_{NH}\}C_6H_2Br_2$	.....	19,830	6,975
	Ciba Violet B paste 10 per cent.....	I		
	Ciba Violet B paste 50 per cent.....	I		
901a	CIBA VIOLET R paste 10 per cent.....	I	1,006	
902	HELINDONE BROWN 2 R.....1910 Thio-indigo brown [K].	.....	876	1,480
	Thio Indigo Brown 2 R powder.....	K		
	Helindone Brown 2 R paste.....	M		
	Helindone Brown 2 R powder.....	M		
903	HELINDONE BROWN 5 R.....1910 Bromo-6-amido-2-thio-napthene-2-indole-indigo.	M	0	

XVII. INDIGO AND ITS DERIVATIVES—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
904	HELINDONE BROWN G.....1910	.....	12,936	$6,710
	Tribromo-6-amido-2-thio-naphthene-3-indole-indigo.			
	Thio Indigo Brown G powder (S.)	K		
	Helindone Brown G paste	M		
	Helindone Brown G powder	M		
904a	HELINDONE BROWN (V. M.)	.....	150	445
	Helindone Brown powder	M		
	Helindone Brown CR powder (S.; Kal. 1913)	M		
905	THIO INDIGO SCARLET R.....1906	K	0	
	2-Thio-naphthene-3-indole-indigo.			
906	THIO INDIGO SCARLET G.....1906	K	0	
	Dibromo-2-thio-naphthene-3-indole-indigo.			
907	CIBA SCARLET.....1908	.....	22,365	11,479
	2-Thio-naphthene-acenaphthene-indigo.			
	$C_6H_4\begin{Bmatrix}CO\\S\end{Bmatrix}C=C-C_{12}H_6O$			
	Helindone Fast Scarlet C paste	M		
	Helindone Fast Scarlet C powder	M		
	Ciba Scarlet G 20 per cent paste	I		
908	CIBA RED R paste 20 per cent.....1907	I	1,001	
	Bromo-2-thio-naphthene-acenaphthene-indigo.			
909	CIBA RED B.....1907	I	0	
	6.6'-Dichloro-bis-thio-naphthene-indigo.			
910	HELINDONE PINK.....1908	.....	39,393	47,117
	6.6'-Dibromo-dimethyl-bis-thio-naphthene-indigo.			
	Thio Indigo Pink 247 paste	K		
	Thio Indigo Pink 2475 paste	K		
	Thio Indigo Rose AN paste	K		
	Thio Indigo Rose AN paste extra	K		
	Thio Indigo Rose BN paste	K		
	Helindone Pink AN (S.; Kal. 1912)	M		
	Helindone Pink BN paste	M		
910a	CIBA PINK	.....	2,306	1,292
	Ciba Pink R powder	I		
	Ciba Pink R paste A	I		
911	CIBA ORANGE.....1911	.....	222	204
	Derived from 2-thio-naphthene-acenaphthene-indigo.			
	Ciba Orange G powder	I		
	Ciba Orange G paste	I		
912	THIO INDIGO RED B paste.....1905	K	1,102	
	Bis-thio-naphthene-indigo.			
	$C_6H_4\begin{Bmatrix}[1]CO\\[2]S\end{Bmatrix}C=C\begin{Bmatrix}CO[1]\\S[2]\end{Bmatrix}C_6H_4$			
913	HELINDONE ORANGE R.....1907	.....	14,489	5,841
	6.6'-Diethoxy-bis-thio-naphthene-indigo.			
	$C_2H_5\cdot O\cdot[4]C_6H_3\begin{Bmatrix}[1]CO\\[2]S\end{Bmatrix}C=C\begin{Bmatrix}CO[1]\\S[2]\end{Bmatrix}C_6H_3[4]\cdot O\cdot C_2H_5$			
	Thio Indigo Orange R powder (Kal. 1911)	K		
	Thio Indigo Orange R paste	K		
	Helindone Orange R	M		
	Helindone Orange R paste	M		
913a	THIO INDIGO YELLOW 3 GN (S.; Kal. 1913)	K	22	
914	HELINDONE ORANGE D.....1907	M	0	
	Dibromo-6.6'-diamido-bis-thio-naphthene-indigo.			
915	HELINDONE FAST SCARLET R.....1907	.....	4,302	1,897
	Dibromo-6.6'-diethoxy-bis-thio-naphthene-indigo.			
	$\begin{matrix}C_2H_5O\\Br\end{matrix}\Big\rangle C_6H_2\begin{Bmatrix}CO\\S\end{Bmatrix}C=C\begin{Bmatrix}CO\\S\end{Bmatrix}C_6H_2\begin{matrix}OC_2H_5\\Br\end{matrix}\Big\rangle$			
	Helindone Fast Scarlet R paste	M		
	Helindone Fast Scarlet RC	M		

XVII. INDIGO AND ITS DERIVATIVES—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
916	HELINDONE SCARLET S.....1907 Diethyl-thio-bis-thio-naphthene-indigo.  Thio Indigo Scarlet S paste	K	5,515	$5,141
	Thio Indigo Scarlet 6086 powder (S.)	K		
	Helindone Scarlet S	M		
917	HELINDONE RED B powder.....1909 Dichloro-bis-thio-naphthene-indigo. 	M	100	
918	HELINDONE RED 3 B.....1909 Dichloro-dimethyl-bis-thio-naphthene-indigo.  Thio Indigo Red 3 B paste	K	27,574	10,942
	Helindone Red 3 B paste	M		
919	CIBA BORDEAUX B paste 10 per cent.....1907 Brominated Thio Indigo Red B (No. 912). 5.5'-Dibromo-bis-thio-naphthene-indigo. 	I	899	
920	HELINDONE VIOLET.....1912 Dichloro-dimethyl-dimethoxy-bis-thio-naphthene-indigo. Thio Indigo Violet 2 B powder	K	28,607	15,945
	Helindone Violet B paste	M		
	Helindone Violet BB paste	M		
	Helindone Violet BB powder	M		
	Helindone Violet R paste	M		
921	HELINDONE GRAY 2 B, BR.....1910 7.7'-Diamido-thio-indigo and its dichloro derivative.	M	0	
921a	HELINDONE PRINTING BLACK 2 RG paste (Kal. 1914)..1913	M	470	

XVIII. ANILINE BLACK GROUP.

922	ANILINE BLACK, DIPHENYL BLACK.....1863 Oxidation of aniline or its homologues with chlorates in presence of salts of copper or vanadium; or with bichromates or ferricyanides.		1,470	$518
	Aniline Black 15908	B		
	Diphenyl Black	M		
923	URSOL.....1888 Hydrochlorides of p-phenylene-diamine, p-amido-phenol, and diamido-diphenylamine, respectively. The colors are produced upon the fiber by subsequent oxidation, using hydrogen peroxide, bichromates, or quinone.		53,720	15,779
	Ursol A	A		
	Ursol ADF.....1910	A		
	Ursol D crystals	A		
	Ursol D lumps	A		
	Ursol DB	A		
	Ursol GG	A		
	Ursol DF	A		
	Ursol P	A		
	Ursol PP	A		
	Ursol Gray AL (S.; Kal. 1907, 1908, 1909, 1913)	A		
923a	NAKO COLORS		285	157
	Nako Black DBB	M		
	Nako Black O (S. 1907)	M		
	Nako Blue Black B	M		
	Nako Brown B	M		
	Nako Brown DR (S.)	M		
	Nako Brown 3 GA	M		

XVIII. ANILINE BLACK GROUP—Continued.

No.	Commercial and chemical names and formulas.	Manufacturer.	Importation.	
			Pounds.	Value.
923a	NAKO COLORS—Continued.			
	Nako Brown 3 GN	M		
	Nako Brown P	M		
	Nako Brown RH	M		
	Nako Gray B	M		
	Nako Gray 6 B	M		
	Nako Yellow O	M		
	Nako Yellow O (techn.)	M		

XIX. UNCLASSIFIED COAL-TAR COLORS.

A large number of the artificial dyestuffs currently imported into the United States are of unknown composition. Apart from tolerably full data regarding their appearance, reactions, and especially their tinctorial properties, but little, and in most cases nothing, is known concerning the details of manufacture or of the semimanufactured products employed.

The colors belonging to this category, which are recognized as azo colors, are enumerated in a special section, following No. 492, page 110. Those known generally as "sulphur blacks" are given on page 170. The remaining sulphur colors, of unknown derivation, are found in a special section on page 175.

Section XIX includes 904 dyes, falling under 619 headings. Some of these dyes are used on a very extensive scale. Not a few of the number probably might be classed as azo colors, were their character better known. Undoubtedly many trade designations in the following list refer to dyes which are identical in composition with various colors listed serially, or are of a closely allied nature. For commercial reasons the fact of such identity or close relationship has not yet been made public.

As in the case of the azo and sulphur colors of unknown composition or derivation, abundant reference is made to sources of information concerning individual dyes. The arrangement followed is, likewise, the same as that described (p. 110) in connection with unclassified azo colors.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U1	COTTON PURE BLUE R (S.; Kal. 1911)	A	586	
U2	DEEP FAT BLACK COLOR	A	668	
U4	GENTIANA VIOLET B	A	24	
U5	GUINEA BLACK 3 BL extra (S.; Kal. 1911)	A	6,629	
	GUINEA BORDEAUX		23,252	$3,223
U6	Guinea Bordeaux B	A		
U7	Guinea Bordeaux 6 B	A		
U8	Guinea Bordeaux BL	A		
	GUINEA BROWN		1,790	437
U9	Guinea Brown R (S.; Kal. 1913)	A		
U10	Guinea Brown 2 R (S.; Kal. 1913)	A		
	GUINEA CYANINE		4,113	836
U11	Guinea Cyanine LB (Kal. 1914)	A		
U12	Guinea Cyanine LG (Kal. 1914)	A		
U13	Guinea Cyanine LR (Kal. 1914)	A		
	GUINEA FAST GREEN		5,236	1,180
U14	Guinea Fast Green B (S.; Kal. 1904)	A		
U15	Guinea Fast Green 3 B	A		
U16	Guinea Fast Green 2 G	A		
	GUINEA FAST RED		5,619	1,558
U17	Guinea Fast Red BL (S.; Kal. 1914)	A		
U18	Guinea Fast Red 4 BL	A		
U19	Guinea Fast Red 2 R (S.; Kal. 1912)	A		
	GUINEA FAST VIOLET		3,013	1,361
U20	Guinea Fast Violet AL	A		
U21	Guinea Fast Violet 10 B (S.; Kal. 1906)	A		
U22	HAT BLACK B (S.)	A	2,070	
U23	INDIGO CARMINE BLUE BG (S.)	A	99	
U24	INDO VIOLET BF (S.; Kal. 1913)	A	23,060	
U25	LACQUER BLACK R	A	99	

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U26	LEATHER OLIVE 71980	A	882	
	METACHROME BLUE		14,361	$3,996
U27	Metachrome Blue B (S.; Kal. 1913)	A		
U28	Metachrome Blue G	A		
	METACHROME BLUE BLACK		399	124
U29	Metachrome Blue Black 2 B (S.; Kal. 1912, 1913)	A		
U30	Metachrome Blue Black 2 BX (S.; Kal. 1912, 1913)	A		
	METACHROME BROWN		57,313	7,271
U31	Metachrome Brown BL powder (S.; Kal. 1912, 1913)	A		
U32	Metachrome Brown BRL (S.; Kal. 1912, 1913)	A		
U33	METACHROME ORANGE 3 R double powder (S.; Kal. 1911)	A	1,299	
U34	METACHROME RED G (S.; Kal. 1914)	A	397	
	METACHROME VIOLET		1,065	255
U35	Metachrome Violet B (S.; Kal. 1913)	A		
U36	Metachrome Violet 2 R (S.; Kal. 1914)	A		
	MILLING BLUE		7,934	1,470
U37	Milling Blue GR extra	A		
U38	Milling Blue 5 R extra	A		
U39	MILLING ORANGE G (S. 1913)	A	198	
	MILLING RED		4,540	973
U40	Milling Red	A		
U41	Milling Red 6 BA	A		
U42	Milling Red GA	A		
	MILLING YELLOW		4,508	1,057
U43	Milling Yellow 3 G (S.; Kal. 1914)	A		
U44	Milling Yellow GA	A		
U44	Milling Yellow GA extra	A		
U45	NAPHTHOGENE INDIGO BLUE R (S.; Kal. 1912)	A	300	
U46	NAPHTHOGENE PURE BLUE 4 B (S.; Kal. 1911)	A	498	
	ORCHIL		2,373	5,932
U47	Orchil OPAG extra crystals	A		
U48	Orchil RCEP	A		
U49	Orchil RPH	A		
U58	PHOENIX BROWN D extra 1903	A	701	
U59	PRIMAL BLACK	A	249	
U60	RED FOR LEATHER R	A	300	
U61	SCARLET 58446	A	13,244	
U63	ACID BLACK 57257	A	6,243	
	AMINE BLACK		146,163	14,290
U64	Amine Black 4 B (S.; Kal. 1908)	A		
U64	Amine Black 4 B extra	A		
U64	Amine Black 4 B extra 60:100	A		
U64	Amine Black 4 B new	A		
U64	Amine Black 4 B 88605 new	A		
U65	Amine Black 10 B	A		
U66	Amine Black 4 BM	A		
U67	Amine Black S 4 B (Kal. 1908)	A		
U68	Amine Black SL (S.; Kal. 1913)	A		
U69	AMINE BLACK GREEN B (Kal. 1908)	A	7,846	
U70	AMINE RED	A	201	
U71	BENZOFORM ORANGE G	A	1,008	
U72	BENZOFORM RED G	A	708	
	BRILLIANT CONGO BLUE		500	92
U73	Brilliant Congo Blue B (Kal. 1910)	A		
U74	Brilliant Congo Blue 5 R (Kal. 1910)	A		

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U75	BRILLIANT CONGO VIOLET R (S.; Kal. 1910)	A	2,800	
	BRILLIANT COPPER BLUE		5,011	$1,253
U76	Brilliant Copper Blue BW (S; Kal. 1910)	A		
U77	Brilliant Copper Blue GW (S.; Kal. 1911)	A		
U78	CHROME FAST BLUE 4 B (Kal. 1905)	A	23,585	
U79	CHROME FAST GARNET BL (S.; Kal. 1911)	A	2,310	
U80	COLUMBIA BORDEAUX B (S.; Kal. 1906)	A	6,178	
	COLUMBIA CATECHINE		1,965	534
U81	Columbia Catechine 3 B (Kal. 1914)	A		
U82	Columbia Catechine G (Kal. 1914)	A		
U83	Columbia Catechine O (Kal. 1914)	A		
U84	Columbia Catechine R (Kal. 1914)	A		
	COLUMBIA FAST BLACK		82,040	15,756
U86	Columbia Fast Black D extra (S.; Kal. 1913)	A		
U87	Columbia Fast Black FF extra S (S.; Kal. 1912)	A		
U88	Columbia Fast Black G extra (S.; Kal. 1912)	A		
U89	Columbia Fast Black V extra (S.; Kal. 1907)	A		
U90	ACETYL RED GX (S.; Kal. 1913)	B	1,499	
U91	ACID KRAFT BROWN max	B	4,958	
	ACID RHODAMINE		6,463	4,455
U92	Acid Rhodamine B	B		
U93	Acid Rhodamine 3 B	B		
U94	Acid Rhodamine BG	B		
U95	Acid Rhodamine G	B		
U95	Acid Rhodamine R	B		
U96	AMARANTH DE	B	2,204	
	ANTHOSINE		3,360	1,918
U97	Anthosine B	B		
U98	Anthosine 3 B	B		
U99	Anthosine 5 B	B		
U100	BASIC KRAFT BROWN Y 2	B	11,235	
U101	BLACK E extra conc	B	500	
	BLACK BASE		7,840	1,502
U102	Black Base BB	B		
U103	Black Base S	B		
U104	BLUE 214 grains	B	397	
U105	BRILLIANT ANTHRAZUROL powder (S. 1902)	B	1,598	
	BRILLIANT CARMINE		6,383	1,412
U106	Brilliant Carmine CL extra	B		
U107	Brilliant Carmine GG	B		
U108	Brilliant Carmine L	B		
U108	Brilliant Carmine L conc	B		
	BRILLIANT SCARLET		23,382	2,588
U109	Brilliant Scarlet NY 47	B		
U110	Brilliant Scarlet 141113	B		
U111	BROWN A 1678	B	6,038	
U112	CEROFLAVINE	B	9	
	CHOCOLATE BROWN		196	56
U113	Chocolate Brown G	B		
U114	Chocolate Brown R	B		
U115	CHROME FAST BLUE B extra (S. 1912)	B	699	
	CHROME LEATHER BLACK		7,569	1,237
U116	Chrome Leather Black E extra conc., easily soluble	B		
U117	Chrome Leather Black EA extra	B		
U118	CLARET NY Z 1413	B	957	

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	CLARET RED		8,948	$711
U119	Claret Red	B		
U120	Claret Red 8S	B		
U121	CORVOLINE BT lumps	B	10,789	
	COTTON BROWN		3,298	720
U122	Cotton Brown CNP	B		
U123	Cotton Brown RN	B		
U124	COTTON MILLING BLACK	B	701	
U125	COTTON PINK B extra	B	800	
U126	CRYSTAL ORANGE	B	6,596	
	DIAMOND MAGENTA		5,047	1,920
U128	Diamond Magenta small needles	B		
U129	Diamond Magenta I small crystals	B		
	ERGANE YELLOW		2,328	723
U130	Ergane Yellow G powder	B		
U131	Ergane Yellow R powder	B		
U132	Ergane Yellow W extra	B		
	ERGANONE BLUE		699	139
U133	Erganone Blue B paste	B		
U134	Erganone Blue 3 G paste	B		
U135	ERGANONE GRAY B paste	B	600	
U136	ERGANONE VIOLET R paste	B	99	
U137	EXPORT BLUE 1504	B	450	
U138	FAST ACID MARINE BLUE HBBX (S.; Kal. 1913)	B	25,567	
U139	FAST ACID VIOLET ERR extra	B	1,001	
U140	FAST LIGHT YELLOW 3 G	B	13,420	
	FAST SCARLET		4,848	1,214
U141	Fast Scarlet B 22114	B		
U142	Fast Scarlet BX	B		
U143	Fast Scarlet BXG	B		
U144	GREEN VGW (blue shade)	B	503	
	JAPAN BLACK		13,974	2,766
U145	Japan Black extra	B		
U146	Japan Black B extra	B		
U147	Japan Black B base	B		
U148	Japan Black M	B		
U149	Japan Black MBG	B		
U150	Japan Black MF	B		
	JET BLACK		19,442	4,779
U151	Jet Black APX	B		
U152	Jet Black RR	B		
	JUTE BLACK		75	15
U153	Jute Black B (R. 39)	By		
U153	Jute Black RNT (R. 39. Mixture of Grenadin, Maroon, Malachite Green, and Bismarck Brown)	B		
U154	JUTE COAL BLACK S	By	225	
	KRAFT BROWN		43,807	10,218
U155	Kraft Brown L conc	B		
U155	Kraft Brown basic YZ	B		
U156	LAKE BLUE I	B	51	
U157	LAKE PURPLE 3 B	B	498	
	LEATHER BLACK		16,433	4,843
U158	Leather Black BO lumps	B		
U159	Leather Black CR	B		
U160	METHYL SOLUBLE BLUE 3 S conc	B	699	

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U161	NEPTUNE BROWN RX. (S.; Kal. 1913)	B	399	
	OIL BLACK		28,603	$4,258
U163	Oil Black 6 B liquid	B		
U164	Oil Black 6 B grains	B		
U164	Oil Black 6 G grains	B		
U165	Oil Black HG liquid	B		
U166	OIL BLUE liquid	B	747	
	OIL ORANGE		270	56
U167	Oil Orange R liquid	B		
U168	Oil Orange 3 R powder	B		
	OIL RED		930	314
U169	Oil Red B powder	B		
U169	Oil Red B liquid	B		
U170	Oil Red G	B		
	OIL YELLOW		251	113
U171	Oil Yellow G liquid	B		
U172	Oil Yellow R powder	B		
U173	PALATINITE	B	1,323	
U174	PAPER BLUE TRR	B	2,968	
	PAPER BROWN		2,842	507
U175	Paper Brown BB	B		
U176	Paper Brown BL	B		
U177	Paper Brown RT	B		
U178	PARAMINE extra (S.; Kal. 1908; R. 15, 93). (A pigment color.)	B	3,528	
U179	PERSIAN RED RD	B	540	
	PIGMENT BLACK		22,443	926
U180	Pigment Black paste	B		
U181	Pigment Black BP paste	B		
U182	PRINTING BROWN G (for wool)	B	1,100	
	QUERCITRON SUBSTITUTE		16,812	2,432
U183	Quercitron substitute WBL	B		
U184	Quercitron substitute V	B		
U189	RUBINE N	B	198	
U190	SPECIAL BLUE G	B	899	
U191	STEAM GREEN G	B	1,799	
U192	THIAZINE BROWN R (S.; S. H. IV, 1751)	B	12,105	
	TYPOPHOR BLACK		1,300	523
U193	Typophor Black FB	B		
U194	Typophor Black F 3 R	B		
U195	TYPOPHOR BROWN FR	B	849	
U196	TYPOPHOR CARMINE FB	B	24	
U197	TYPOPHOR RED FG	B	247	
	TYPOPHOR YELLOW		602	362
U198	Typophor Yellow FR	B		
U199	Typophor Yellow F 3 R	B		
U200	WOOL FAST BLACK B extra	B	3,875	
U201	WOOL FAST BLUE BL	B	9,627	
U202	WOOL FAST ORANGE G	B	1,049	
	WOOL FAST YELLOW		1,500	775
U203	Wool Fast Yellow G	B		
U204	Wool Fast Yellow 5 GX	B		
U205	Wool Fast Yellow WG	B		

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	ACID CHROME BLUE		25,633	$6,553
U206	Acid Chrome Blue 3 G (S.; Kal. 1910)—1908	By		
U207	Acid Chrome Blue 2 R (S.)—1906	By		
U207	Acid Chrome Blue 2 R paste 60 per cent (S.)—1906	By		
U208	Acid Chrome Blue 5 R paste 60 per cent (S.; Kal. 1912)	By		
U209	ACID CHROME RED B	By	500	
U210	ACID CHROME VIOLET R	By	201	
	ALIZARIN URANOL		4,947	7,812
U211	Alizarin Uranol 2 B powder (S.; Kal. 1914)	By		
U212	Alizarin Uranol R powder (S.; Kal. 1912)	By		
U213	ALKALI FAST GREEN 3 G (S.; Kal. 1907)	By	1,497	
U214	ALKALI VIOLET LR	By	3,318	
	ARTIFICIAL SILK BLACK		6,450	1,172
U215	Artificial Silk Black G	By		
U216	Artificial Silk Black R	By		
U217	BLUE 27071	By	14,775	
U218	BLUE BLACK for HALF WOOL G	By	104	
U219	BRILLIANT PURE YELLOW 6 G (S.; Kal. 1911)	By	349	
	BRILLIANT SKY BLUE		4,002	1,601
U220	Brilliant Sky Blue 5 B	By		
U221	Brilliant Sky Blue G	By		
U222	Brilliant Sky Blue 5 G	By		
U223	Brilliant Sky Blue 8 G extra	By		
U224	BRILLIANT YELLOW conc. 24347	By	5,908	
U225	CERES BLUE 4 (S.). (For lakes)—1905	By	150	
	CERES BROWN		150	55
U226	Ceres Brown 3 (S.). (For lakes)—1905	By		
U227	Ceres Brown 4 (S.). (For lakes)—1905	By		
U228	CERES ORANGE 3 (S.). (For lakes)—1905	By	300	
	CERES RED		723	400
U229	Ceres Red 3 (S.). (For lakes)—1905	By		
U230	Ceres Red 6 (S.). (For lakes)—1905	By		
U231	CHROME FAST BROWN TP	By	1,852	
U232	CHROME FAST ORANGE RD paste	By	201	
U233	CHROME LEATHER BLACK E extra	By	5,570	
U239	CHROME LEATHER BLACK M (S.)—1910	By	902	
U235	CHROME ORANGE GR 26722 (S.; Kal. 1912)	By	1,393	
U236	CHROMOXANE BLUE R (S.; Kal. 1911; R. 66). (A triphenylmethane mordant dye)	By	801	
U237	CHROMOXANE VIOLET 5 B (S.; Kal. 1912; R. 66)	By	2,106	
	CLARET LAKE		15,290	919
U238	Claret lake BL	By		
U238	Claret lake BL paste	By		
U239	FAST LEATHER YELLOW 26855	By	49	
U240	FAST PRINTING YELLOW R powder	By	498	
U241	FUR BLACK DM 27503—1904	By	24	
U242	FUR GRAY 27935	By	24	
U243	GALLO VIOLET D paste	By	498	
U244	GALLO VIOLET DF 27964 (S.; Kal. 1909)	By	24	
U245	GLORIA BLACK N	By	2,044	

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U246	HALF WOOL BLUE 3 R (Kal. 1913)	By	20,610	
U247	LAKE YELLOW 28227 paste	By	51	
U248	LEATHER BROWN GG	By	4,685	
U249	MONOCHROME BLACK F (Kal. 1912)	By	123	
U250	MONOCHROME BLACK BLUE G (Kal. 1913)	By	99	
U251	MONOCHROME BLUE 5 R (Kal. 1913)	By	198	
	MONOCHROME BROWN		3,933	$960
U252	Monochrome Brown BX	By		
U253	Monochrome Brown G	By		
U254	Monochrome Brown V	By		
U255	PAPER FAST BORDEAUX B (S.; Kal. 1911)	By	1,693	
	RED LAKE		9,686	1,426
U256	Red Lake RL extra	By		
U256	Red Lake RL 27428	By		
U256	Red Lake extra paste 27429	By		
U257	Red Lake RMT 27445	By		
U258	RHODULINE BLUE 6 G (S.; Kal. 1905, 1913)	By	597	
U259	RHODULINE HELIOTROPE 3 B (S. 1905)	By	298	
U260	STRAW BLUE G (Kal. 1913)	By	690	
U261	SULPHON ACID BLACK N 2 B extra (Kal. 1914)	By	1,321	
U262	SULPHON ACID GREEN B (S.; Kal. 1910)—1908	By	1,248	
U263	SUPRAMINE BROWN R (S.; Kal. 1911)—1909	By	225	
U264	SUPRAMINE YELLOW R (S.; Kal. 1911)—1909	By	624	
	TOLUYLENE FAST BROWN		4,400	1,165
U265	Toluylene Fast Brown 3 G (Kal. 1911)	By		
U266	Toluylene Fast Brown 2 R (Kal. 1911)	By		
U267	UNIVERSAL BLACK B (Kal. 1912)	By	6,060	
	VICTORIA FAST VIOLET		1,347	510
U268	Victoria Fast Violet B extra (Kal. 1910)	By		
U269	Victoria Fast Violet 2 R extra (Kal. 1911)	By		
U270	VICTORIA NAVY BLUE L (S.; Kal. 1909)—1908	By	5,747	
	WOOL FAST BLUE		19,238	6,331
U271	Wool Fast Blue BL (S.; Kal. 1907)—1904	By		
U272	Wool Fast Blue GL (S.; Kal. 1907)—1906	By		
U273	ACID BROWN	C	199	
U274	ANTHRACENE DIRECT GREEN 68 Z 2288	C	112	
U275	BENZINE BLACK 55 J 1938	C	2,862	
U276	BENZINE BLUE 55 H 1937	C	300	
U277	BLACK SOLUBLE IN OIL	C	500	
U278	BLUE JB	C	101	
	BRILLIANT LANAFUCHSINE		11,289	1,757
U279	Brilliant Lanafuchsine 63 S 2154 (S.)	C		
U280	Brilliant Lanafuchsine 63 T 2155 (S.)	C		
	BRILLIANT MILLING BLUE		7,322	1,682
U281	Brilliant Milling Blue 46 P 1719 (S.; Kal. 1905). Triphenylmethane dye for wool	C		
U281	Brilliant Milling Blue 21 S 1097	C		
U281	Brilliant Milling Blue 67 W 2260	C		
U282	BRILLIANT NAPHTHOL BLUE 29 K 1289 (S.; Kal. 1908). (Current marks, G, R.)	C	1,898	

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation. Pounds.	Value.
	BRILLIANT SCARLET		41,082	$4,317
U283	Brilliant Scarlet 57 O 1995. (Current marks, G, GG, 2665 J, 2666 J, R, 2 R, 3 R, 4 R, 6 R.)	C		
U283	Brilliant Scarlet 57 Q 1997	C		
U283	Brilliant Scarlet 57 R 1998	C		
U283	Brilliant Scarlet 57 S 1999	C		
U284	CARBAZOLE WOOL GREEN 69 O 2302	C	999	
U285	CERASINE BROWN AN (S.; the cerasine colors include certain azo and triphenylmethane dyes soluble in water, alcohol, oils, and fats)	C	448	
U286	CRYSTAL SCARLET 6 R	C	1,801	
	HAVANA BROWN		8,396	1,265
U287	Havana Brown S	C		
U287	Havana Brown S conc	C		
	ISAMINE BLUE		5,038	1,350
U288	Isamine Blue 30 A 1305 (S.; Kal. 1908, 1912). (Current marks, B, 6 B, 8 B, R.)	C		
U288	Isamine Blue 30 H 1312	C		
U288	Isamine Blue 30 O 1318	C		
U289	LAKE BLACK C	C	3,098	
	LEATHER BLACK		11,784	3,063
U290	Leather Black 66 D 2217. (Current marks, TB, TBB, TG.)	C		
U290	Leather Black 66 E 2218	C		
U290	Leather Black 66 F 2219	C		
U290	Leather Black 12 G 851	C		
U290	Leather Black 52 X 1877	C		
U291	MINERAL BLUE 6 B 513	C	999	
U292	NAPHTHOL DARK GREEN G	C	2,280	
	NERAZINE		44,676	8,484
U293	Nerazine 69 B 2290 (Kal. 1909). (Current marks, G, GA.)	C		
U293	Nerazine 51 J 1838	C		
U293	Nerazine 31 L 1340	C		
U293	Nerazine 55 Z 1954	C		
	PARAPHOSPHINE		4,506	957
U294	Paraphosphine 11 K 839 (Kal. 1905). (Current marks, AGE, G, GG, L, P, R.)	C		
U294	Paraphosphine 11 L 840	C		
U294	Paraphosphine 14 Y 928	C		
	PATENT BLACK		7,808	919
U295	Patent Black 18 S 1022. (Current marks, N. I, II)	C		
U295	Patent Black 15 W 951	C		
U295	Patent Black 15 X 952	C		
	SOLID BLUE		1,350	262
U296	Solid Blue FF 57. (Current marks, BD, 2 BD, BRD, 6 G, RR, 3 R, 3 RD.)	C		
U296	Solid Blue 41 W 1601	C		
U299	VIGOUREUX GREEN B	C	1,499	
U300	WOOL BLUE 15 S 947	C	500	
	ACID BLUE		1,587	747
U301	Acid Blue	K		
U301	Acid Blue extra greenish	K		
U301	Acid Blue AG	K		
U301	Acid Blue OG	K		
U302	ACID CHROME BLUE	K	481	
U303	ACID OLIVE 2764	K	959	
	ACID RED		30,099	6,238
U304	Acid Red 2 B	K		
U304	Acid Red 4 B	K		
U304	Acid Red G	K		
U304	Acid Red 3 G	K		
U304	Acid Red 4 R	K		

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	ACID RED—Continued.			
U304	Acid Red 3 S	K		
U304	Acid Red 019	K		
U304	Acid Red R 0185	K		
U304	Acid Red 1622	K		
U304	Acid Red 1642	K		
U304	Acid Red 1645	K		
U305	ANTHRARUBINE 395	K	265	
	AZURE BLUE		3,902	$1,736
U306	Azure Blue extra. (Current marks, V, VE, Z.)	K		
U306	Azure Blue A extra	K		
U306	Azure Blue A extra 452	K		
U306	Azure Blue ASI	K		
U306	Azure Blue O extra	K		
U306	Azure Blue VS extra	K		
U307	BASIC BLACK TES	K	645	
	BIEBRICH ACID BLUE		3,215	1,127
U308	Biebrich Acid Blue G (S.; S. J., 2d ed., 839). (Current marks, G, B, 2 B.) 1896	K		
U308	Biebrich Acid Blue V	K		
U309	BLUE CRYSTALS 3085	K	240	
U310	BLUE RESIDUE BW 6 M	K	212	
U312	BRILLIANT ACID RED G	K	212	
U313	BRILLIANT AZURE BLUE VS	K	441	
U314	BRILLIANT DELPHINE BLUE B	K	223	
U315	BRILLIANT DIAZINE BLUE 1230 (S.). (Current marks, B, 2 B.)	K	260	
U316	BRILLIANT MILLING BLUE B extra	K	2,644	
U317	BRILLIANT PATENT BLUE A	K	63	
U318	CANDLE BLUE	K	1,367	
U319	CANDLE VIOLET	K	1,323	
U320	CARMINE BLUE V extra	K	1,761	
	CARPET RED		15,445	1,649
U321	Carpet Red B	K		
U321	Carpet Red BT	K		
U321	Carpet Red R	K		
	CHROME BLACK		3,556	807
U322	Chrome Black 2841 (S. H. IV, 1518)	K		
U322	Chrome Black LV extra	K		
U323	CHROME BLUE BLACK B	K	1,561	
	CHROME GREEN		6,871	1,947
U324	Chrome Green C	K		
U324	Chrome Green 0585. (Current marks, C, N.)	K		
U324	Chrome Green 2761	K		
U324	Chrome Green 2762	K		
U325	CHROME RED 2593	K	359	
U326	CHROME VIOLET BROWN 9457	K	798	
	CLOTH BLUE		3,261	979
U327	Cloth Blue 1769	K		
U327	Cloth Blue 1770	K		
U327a	CLOTH SCARLET 2584	K	697	
	COTTON BLUE		8,134	2,522
U328	Cotton Blue BR	K		
U328	Cotton Blue B 224 extra	K		
U328	Cotton Blue CC	K		

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	COTTON BROWN		15,079	$4,959
U329	Cotton Brown B	K		
U329	Cotton Brown 4 G	K		
U329	Cotton Brown O	K		
U329	Cotton Brown 2 R	K		
U329	Cotton Brown V	K		
	COTTON DARK GREEN		1,949	517
U330	Cotton Dark Green B	K		
U330	Cotton Dark Green N	K		
U330	Cotton Dark Green N extra	K		
U331	COTTON GREEN powder	K	3,528	
U332	COTTON MARINE BLUE 4676	K	79,035	
	COTTON ORANGE		21,665	5,116
U333	Cotton Orange	K		
U333	Cotton Orange FB	K		
U333	Cotton Orange GK	K		
U333	Cotton Orange RR	K		
U333	Cotton Orange R 2 O	K		
U334	COTTON SCARLET 1602. (Current mark, 3 B.)	K	888	
	DIRECT BLACK		42,277	8,438
U335	Direct Black D	K		
U335	Direct Black DB	K		
U335	Direct Black G	K		
U335	Direct Black 3 B	K		
U335	Direct Black T	K		
U335	Direct Black WC	K		
U335	Direct Black 3899	K		
U335	Direct Black 3919	K		
U335	Direct Black 8535	K		
	DIRECT BLUE		57,224	14,318
U336	Direct Blue A. (Current marks, B, 3 BN.)	K		
U336	Direct Blue BK	K		
U336	Direct Blue 7 B	K		
U336	Direct Blue 12 B	K		
U336	Direct Blue FF 712	K		
U336	Direct Blue GRC	K		
U336	Direct Blue N 2 B	K		
U336	Direct Blue R	K		
U336	Direct Blue 5 R	K		
U336	Direct Blue X 2 B	K		
U336	Direct Blue 3681	K		
U336	Direct Blue 3688	K		
U336	Direct Blue 3694	K		
	DIRECT BROWN		21,828	4,799
U337	Direct Brown B	K		
U337	Direct Brown B extra	K		
U337	Direct Brown H	K		
U337	Direct Brown TB	K		
U337	Direct Brown 1795	K		
U337	Direct Brown 3839	K		
U337	Direct Brown 3845	K		
	DIRECT COTTON BLUE		5,546	1,555
U338	Direct Cotton Blue GS	K		
U338	Direct Cotton Blue RDB	K		
U339	DIRECT COTTON GREEN 2 B	K	1,318	
U340	DIRECT COTTON GRAY	K	220	
U341	DIRECT DARK GREEN	K	2,079	
U342	DIRECT DARK VIOLET BE	K	789	
U343	DIRECT DEEP BLACK NTS	K	4,079	
U344	DIRECT FAST BLUE FFB	K	1,543	
	DIRECT FAST BROWN		1,750	858
U345	Direct Fast Brown C	K		
U345	Direct Fast Brown GB	K		
U345	Direct Fast Brown GB extra	K		
U345	Direct Fast Brown GB 160	K		

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U346	DIRECT FAST GRAY RN	K	220	
	DIRECT FAST SCARLET		324	$117
U347	Direct Fast Scarlet 4 BS extra	K		
U347	Direct Fast Scarlet 8 BS	K		
U348	DIRECT FAST VIOLET 3654	K	126	
	DIRECT NAVY BLUE		3,440	764
U349	Direct Navy Blue	K		
U349	Direct Navy Blue B	K		
U350	DIRECT PURPLE N extra	K	110	
U351	DIRECT RED N	K	5,754	
U352	DRAZALINE BLUE FF	K	1,217	
	FAST ACID VIOLET		2,206	1,8[illegible]
U353	Fast Acid Violet 3 B	K		
U353	Fast Acid Violet R	K		
U353	Fast Acid Violet 416	K		
U354	GREEN G	K	1,175	
	GREEN RESIDUE		2,066	105
U355	Green residue	K		
U355	Green residue D	K		
	GREEN CRYSTALS		4,559	981
U356	Green Crystals DIIa	K		
U356	Green Crystals IIa	K		
U356	Green Crystals X	K		
U357	GRAY BLUE 0095	K	752	
U358	LEATHER BLACK	K	809	
U359	LEATHER BROWN	K	220	
U360	LEMON YELLOW R	K	754	
	NAPHTHAMINE FAST BLACK		34,203	10,671
U361	Naphthamine Fast Black KS (S.; Kal. 1912)	K		
U362	Naphthamine Fast Black 229 (S.; Kal. 1905, 1908, 1914). (Current marks, SE, SDE, VE.)	K		
U362	Naphthamine Fast Black 3924	K		
U362	Naphthamine Fast Black 3925	K		
U362	Naphthamine Fast Black 3934	K		
U362	Naphthamine Fast Black 4672	K		
U362	Naphthamine Fast Black 4680	K		
U362	Naphthamine Fast Black 4683	K		
U362	Naphthamine Fast Black 4685	K		
U363	NAPHTHAMINE FAST BORDEAUX BG (S. 1913)	K	4	
	NAPHTHAMINE FAST SCARLET		2,938	1,616
U364	Naphthamine Fast Scarlet B 221 (S.; Kal. 1912, 1913). (Current marks, B, 4 B, 8 B, BG, R.)	K		
U364	Naphthamine Fast Scarlet 8 B	K		
U364	Naphthamine Fast Scarlet R 3613	K		
U364	Naphthamine Fast Scarlet 2215	K		
U364	Naphthamine Fast Scarlet 3614	K		
U365	NAPHTHAMINE SCARLET 3603 (S.). (Current marks, B, GS, R.) 1895	K	1,415	
U366	NAPHTHOFORM BLACK 3930	K	2,653	
U367	NAVY BLUE 17184	K	406	
U368	NEW DIRECT BLUE S	K	4,659	
	OIL BLACK		1,452	210
U369	Oil Black IK. (Current marks, KL, 49 A, 49 B, 11534, 12022.)	K		
U369	Oil Black 112	K		
U369	Oil Black 1996	K		
U369	Oil Black 11534	K		
U370	OIL BLUE BLACK 114 in lumps	K	432	

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U371	OIL BROWN BG	K	26	
	OIL ORANGE		6,669	$1,235
U372	Oil Orange AR. (Current marks, A, B, GR, 26.)	K		
U372	Oil Orange 8I	K		
U372	Oil Orange 5581	K		
U372	Oil Orange 5585	K		
U372	Oil Orange 5589	K		
	OIL RED		1,519	251
U373	Oil Red CR. (Current marks, R, RL,—Fat Ponceau.)	K		
U373	Oil Red 5582	K		
U373	Oil Red 5591	K		
	OIL YELLOW		1,557	307
U374	Oil Yellow RB. (Current marks, BG, BNA, PH.)	K		
U374	Oil Yellow 5503	K		
U374	Oil Yellow 5505	K		
U374	Oil Yellow 13843	K		
U375	PAPER GREEN D	K	220	
U376	PAPER ORANGE CR	K	459	
U377	PAPER ORANGE residue	K	1,380	
	PAPER SCARLET		24,372	3,101
U378	Paper Scarlet 3101	K		
U378	Paper Scarlet 3102	K		
U378	Paper Scarlet 3108	K		
U379	PARAZOLE BROWN RK (Kal. 1914)	K	245	
U380	PHENOCHROME YELLOW 946	K	223	
U381	PINK	K	780	
U382	PRINTING YELLOW (greenish)	K	2,875	
U383	PURE YELLOW DG	K	1,617	
U384	REDDISH BROWN	K	4,757	
	SCARLET		29,634	3,363
U385	Scarlet GX	K		
U385	Scarlet P	K		
U385	Scarlet PO	K		
U385	Scarlet 2 PR	K		
U385	Scarlet 2 R	K		
U385	Scarlet X	K		
U385	Scarlet XX	K		
U385	Scarlet 1610	K		
U385	Scarlet residue	K		
	SILK GRAY		836	590
U386	Silk Gray CB	K		
U386	Silk Gray extra 281	K		
U387	SULPHOLINE G 300	K	223	
	SULPHUR YELLOW		943	284
U388	Sulphur Yellow ES	K		
U388	Sulphur Yellow G extra	K		
	WOOL BLACK		118,791	29,453
U390	Wool Black B extra	K		
U390	Wool Black CD	K		
U390	Wool Black CL	K		
U390	Wool Black LR 64238	K		
U390	Wool Black LR 64295	K		
U390	Wool Black NC	K		
U390	Wool Black NR	K		
U390	Wool Black V	K		
U390	Wool Black (greenish)	K		
U390	Wool Black 050	K		
U390	Wool Black 536	K		
U390	Wool Black 0495	K		
U390	Wool Black 2008	K		
U390	Wool Black 2009	K		
U390	Wool Black 2021	K		

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	WOOL BLUE		23,080	96,854
U391	Wool Blue G extra (S.)	K		
U391	Wool Blue 2 G	K		
U391	Wool Blue G 446 N	K		
U391	Wool Blue S	K		
U391	Wool Blue 2 S	K		
U391	Wool Blue TB	K		
U391	Wool Blue 1774	K		
U391	Wool Blue 1775	K		
U391	Wool Blue 1779	K		
U391	Wool Blue 2721	K		
U391	Wool Blue 3226	K		
U392	WOOL BLUE BLACK 2019	K	1,292	
	WOOL BROWN		40,736	6,333
U393	Wool Brown P	K		
U393	Wool Brown MC	K		
U393	Wool Brown SVR	K		
U393	Wool Brown UB	K		
U393	Wool Brown 2808	K		
U394	WOOL CERISE SR	K	16,033	
	WOOL GREEN		20,255	5,488
U395	Wool Green I, (Kal. 1911). (Current mark C.)	K		
U395	Wool Green SD	K		
U395	Wool Green 1851	K		
U395	Wool Green 1852	K		
U396	WOOL SCARLET 1638. (Current marks, B, 2 B, 3 B, 4 B, R, 2 KG, X.)	K	317	
	WOOL VIOLET		12,584	3,429
U397	Wool Violet R	K		
U398	Wool Violet SI, (S.; Kal. 1905, 1907)	K		
	WOOL YELLOW		17,465	2,629
U399	Wool Yellow AT	K		
U399	Wool Yellow D	K		
U399	Wool Yellow G	K		
U399	Wool Yellow LDV	K		
U399	Wool Yellow R	K		
U399	Wool Yellow 1501	K		
U400	ACID BLUE 466	M	500	
U401	ALIZARIN AZURINE D 3 R	M	125	
	ALIZARIN CHROME BROWN		5,775	1,113
U402	Alizarin Chrome Brown DG	M		
U403	Alizarin Chrome Brown DR	M		
U404	ALIZARIN CLARET R paste	M	1,333	
	ALIZARIN CLARET RED		1,000	169
U405	Alizarin Claret Red DB	M		
U406	Alizarin Claret Red DG	M		
	ALIZARIN CRIMSON		2,875	539
U407	Alizarin Crimson DB	M		
U408	Alizarin Crimson DG	M		
U409	ALIZARIN DIRECT CYANINE FA	M	2,756	
	ALIZARIN DIRECT YELLOW		4,250	431
U410	Alizarin Direct Yellow DR	M		
U411	Alizarin Direct Yellow DS	M		
U412	ALIZARIN FAST BLUE DGL	M	125	
	ALIZARIN FAST BROWN		2,500	461
U413	Alizarin Fast Brown DB	M		
U414	Alizarin Fast Brown D 3 R	M		
U415	Alizarin Fast Brown 3 R	M		
U416	ALIZARIN FAST GRAY DBL	M	52	
U417	ALIZARIN FAST ORANGE DO	M	500	

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U418	ALIZARIN FAST RED D 244	M	2,000	
	ALIZARIN FAST SCARLET		3,000	$530
U419	Alizarin Fast Scarlet D 6 BS	M		
U420	Alizarin Fast Scarlet D 8 BS	M		
U421	ALIZARIN GRAY G	M	7,502	
U422	ALIZARIN LIGHT RED D 8 BW	M	500	
	ALIZARIN PURE BLUE		31,000	7,349
U423	Alizarin Pure Blue DPH	M		
U423	Alizarin Pure Blue DPH extra conc	M		
U424	ALIZARIN PURE YELLOW DHS	M	500	
	AMIDO BLUE		1,250	219
U425	Amido Blue B (S.; Kal. 1911)	M		
U426	Amido Blue GGR	M		
U427	AMIDO DARK BOTTLE GREEN B	M	500	
U428	BLACK BLACK O	M	750	
U429	CHROMAZINE BLUE G powder (S.; Kal. 1914)	M	1,130	
U430	CHROMOGENE VIOLET B (S.; Kal. 1914)	M	375	
U431	DICYANINE	M	88	
U433	DRAZALINE YELLOW R extra strong	M	553	
	EXCELSIOR SCARLET	M	40	9
U434	Excelsior Scarlet G	M		
U435	Excelsior Scarlet 3 R	M		
U436	FAST ACID YELLOW RBE	M	551	
U437	HANSA GREEN G powder	M	2,000	
	HANSA RUBINE		6,000	2,271
U438	Hansa Rubine G powder (S.)	M		
U439	Hansa Rubine O	M		
	HANSA YELLOW		11,014	4,553
U440	Hansa Yellow G lumps	M		
U440	Hansa Yellow G paste	M		
U441	Hansa Yellow 5 G lumps	M		
U442	Hansa Yellow R lumps	M		
U442	Hansa Yellow R paste	M		
	LAKE BLUE		3,337	352
U443	Lake Blue ABII	M		
U444	Lake Blue ABOII	M		
U445	Lake Blue AV	M		
U446	Lake Blue AVO	M		
U447	LEATHER BLACK T	M	750	
U448	LEATHER RED O	M	50	
U449	METHYLENE HELIOTROPE O (S.; Kal. 1913)	M	3,500	
	NEOTOLYL BLACK		1,280	294
U450	Neotolyl Black B (S.)	M		
U451	Neotolyl Black BB extra (S.)	M		
U452	Neotolyl Black 4 B extra (S.)	M		
U453	Neotolyl Black TL extra (S.; Kal. 1913)	M		
U454	Neotolyl Black VL extra (S.; Kal. 1913)	M		
U455	NEUTRAL BLUE 3 R (S.; Kal. 1905)	M	750	
U456	NEUTRAL VIOLET O (S. 1897). (A triphenylmethane dye for wool.)	M	4,000	
	NEW ETHYL BLUE		250	93
U457	New Ethyl Blue BS (S. 1903)	M		
U458	New Ethyl Blue RS	M		

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U459	PAPER BLUE MD	M	1,250	
U460	PARATOL CHROME YELLOW L	M	17,336	
U461	PARATOL FAST YELLOW G	M	250	
	PARATOL LAKE RED		2,300	$336
U462	Paratol Lake Red KP lumps	M		
U462	Paratol Lake Red KP paste	M		
U463	Paratol Lake Red LC	M		
U463	Paratol Lake Red LC paste	M		
U464	Paratol Lake Red LP	M		
U464	Paratol Lake Red LP paste	M		
	PARATOL SCARLET		41,000	8,271
U465	Paratol Scarlet 3 B	M		
U465	Paratol Scarlet 3 BX	M		
U466	PINACYANOL	M	40	
U467	RAPID FILTER GREEN I	M	66	
U468	RAPID FILTER RED I	M	66	
U469	RED FOR LEATHER O	M	50	
	ROSAZEINE	M	17,500	8,536
U470	Rosazeine B extra	M		
U471	Rosazeine B 5	M		
U472	Rosazeine 6 G extra	M		
U473	SILK WOOL BLACK 3 B (S.; Kal. 1913)	M	50	
U474	SOLID BROWN O	M	2,400	
	SULPHO ROSAZEINE		575	274
U475	Sulpho Rosazeine B	M		
U476	Sulpho Rosazeine G	M		
U477	VIGOUREUX BROWN I	M	250	
U478	ACID RED 6 BF	BK	551	
U479	BROWN	BK	1,653	
U480	DIRECT SCARLET FB	BK	551	
U481	FAST CHROME BLACK K conc	BK	2,205	
U482	FAST WOOL SCARLET 4 R conc	BK	1,102	
U483	LAKE BLUE RT	BK	1,323	
U484	LEATHER GOLD 5902	BK	220	
	SILK YELLOW		331	615
U485	Silk Yellow N conc	BK		
U486	Silk Yellow N	BK		
U487	YELLOW NF	BK	331	
U488	YELLOW BLACK M conc	BK	2,205	
U489	YELLOW GREEN 6 B conc. 9130	BK	1,764	
U490	COTTON BLUE BCB crystals	CG	661	
U491	DIRECT PURE BLUE conc. 9853	CG	1,323	
U492	FAST PAPER YELLOW G 100 per cent	CG	331	
U493	PERMANENT BLUE GR extra	CG	220	
	BLACK		4,600	1,696
U494	Black 207	CJ		
U494	Black 208	CJ		
U494	Black 213	CJ		
U494	Black 260	CJ		
U494	Black 265	CJ		
U494	Black 280	CJ		

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	OIL BLACK		3,223	$693
U495	Oil Black 1444	CJ		
U495	Oil Black 8485	CJ		
U496	OIL RED 7327	CJ	1,001	
	RED		962	498
U497	Red 232	CJ		
U497	Red 233	CJ		
U497	Red 234	CJ		
U497	Red 235	CJ		
U497	Red 247	CJ		
U497	Red 274	CJ		
U497	Red 291	CJ		
	ROSE		2,552	731
U498	Rose 207	CJ		
U498	Rose 230	CJ		
U498	Rose 270	CJ		
U498	Rose 271	CJ		
U498	Rose 272	CJ		
U498	Rose 281	CJ		
	SPIRIT BLACK		1,378	326
U499	Spirit Black 144	CJ		
U499	Spirit Black 25048	CJ		
	YELLOW		580	206
U500	Yellow 221	CJ		
U500	Yellow 222	CJ		
U500	Yellow 224	CJ		
U500	Yellow 238	CJ		
U501	ACID CRESOL BLACK 4196	GrE	1,997	
	BLUE		2,919	881
U502	Blue 3 BB	GrE		
U503	Blue BS 3 BB	GrE		
U504	Blue BSJ	GrE		
U505	Blue BSR	GrE		
U506	Blue RR	GrE		
U507	GRELA RED R	GrE	399	
	HAT BLACK		231	35
U508	Hat Black A 3432	GrE		
U508	Hat Black 4 AN	GrE		
U508	Hat Black L 3485	GrE		
U508	Hat Black S 3459	GrE		
	INK BLUE		2,495	1,612
U509	Ink Blue BNOO (S.; Kal. 1909)	GrE		
U509	Ink Blue BJTBNOO	GrE		
U509	Ink Blue BJTNO	GrE		
	CRESOL BLACK		37,323	4,246
U510	Cresol Black A 4287	GrE		
U510	Cresol Black BB (S.; Kal. 1909)	GrE		
U510	Cresol Black 5 B (Kal. 1909, 1913)	GrE		
U510	Cresol Black 6 B (Kal. 1909)	GrE		
U510	Cresol Black 3 GOO	GrE		
U510	Cresol Black K 5 B (Kal. 1913)	GrE		
U510	Cresol Black KV (Kal. 1912)	GrE		
U510	Cresol Black NDNOOOO	GrE		
U510	Cresol Black X 6 B (Kal. 1913)	GrE		
U510	Cresol Black 4286	GrE		
U511	LEATHER BLACK 3553	GrE	653	
U512	OXY ACID RED 6 BO	GrE	51	
U513	RED BLUE BSR	GrE	49	
U514	BLUE 16519	L	110	
U515	CHROME GREEN G	L	220	
U516	COTTON GREEN 2 G	L	375	

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U517	CRESYL FAST VIOLET 2 B extra (S. 1895)	L	110	
U518	FAST COTTON BLUE 6 GO	L	331	
	HALF WOOL GREEN		1,146	$172
U519	Half Wool Green 63816	L		
U520	Half Wool Green 63816 N 5	L		
U521	MILLING BROWN G (S. J., 2d ed., 1903) 1896	L	1,543	
U522	ACID CORINTH	tM	1,025	
U523	ACIDOL VIOLET BR	tM	522	
	BLUE		1,206	401
U524	Blue 5 BS crystals	tM		
U525	Blue 3 R grains	tM		
U526	CHRYSOLARINE A extra conc	tM	15,756	
U527	CYANINE BLUE	tM	2,634	
U528	DEEP BLACK D conc	tM	6,736	
U529	FAST GREEN B extra	tM	1,124	
U532	HYLIDINE PONCEAU 2 R	tM	3,086	
U533	JUTE BLACK I	tM	1,102	
U534	LAKE SCARLET 2 R	tM	3,495	
U535	LEATHER BLACK R powder	tM	623	
U536	LIQUID OIL BLACK N	tM	560	
U537	MARINE BLUE RR 85 per cent color (S.)	tM	6,990	
	ALKALI BLACK		3,196	776
U538	Alkali Black conc	WD		
U538	Alkali Black	WD		
U539	ALKALI RUBINE	WD	2,248	
U540	ANTHRANOL GREEN B	WD	2,011	
U541	CELESTIAL BLUE	WD	110	
U542	CHROME LEATHER BLACK I	WD	3,526	
U543	CRYSTAL SCARLET	WD	227	
U544	FAST COTTON YELLOW	WD	122	
U545	FAST RUSSIAN GREEN (S.; Kal. 1908)	WD	220	
U547	PYROPHOSPHINE C	WD	445	
U548	VARNISH BLACK	WD	1,653	
U549	YELLOW (for feathers)	WD	44	
	SULPHO GREEN		330	89
U550	Sulpho Green B (S.; Kal. 1911)	NF		
U550	Sulpho Green C	NF		
U551	ACID FAST VIOLET conc	AW	608	
U552	BASIC BLUE BA	AW	441	
	BLACK		21,239	4,789
U553	Black BH extra strong	AW		
U554	Black HB extra conc	AW		
U555	BLUE CV	AW	55	
	BOMA BLACK		4,794	1,064
U556	Boma Black BH extra strong	AW		
U557	Boma Black BHX	AW		
U558	BOMA PINK	AW	117	

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U559	BOMA YELLOW BBF	AW	496	
U560	CARMINE BLUE A extra	AW	3,303	
U561	CARMINE BRILLIANT BLUE	AW	1,521	
	CHROMINE BLUE		339	$310
U562	Chromine Blue	AW		
U563	Chromine Blue B	AW		
	CHROMINE BROWN		3,507	1,144
U564	Chromine Brown R extra	AW		
U565	Chromine Brown V	AW		
U566	CHROMINE FAST BLUE S	AW	5,295	
U567	CHROMINE VIOLET 2 R	AW	220	
U568	CHOCOLATE BROWN (for leather)	AW	121	
U569	CRIMSON BENINE G	AW	1,819	
	DEVELOPED BLACK		36,475	9,501
U570	Developed Black B extra	AW		
U571	Developed Black N	AW		
U571	Developed Black N extra	AW		
U572	Developed Black R	AW		
U573	Developed Black W	AW		
U574	DEVELOPED BLUE GG	AW	110	
U575	DEVELOPED BROWN M	AW	55	
U576	DEVELOPED GREEN F	AW	55	
U577	DIAMOND VIOLET BB	AW	608	
U578	FAST CHROME BLACK	AW	3,466	
U579	FAST GARNET 5 B extra	AW	608	
U580	FAST PARME extra conc	AW	1,215	
U581	FAST WOOL BLUE I (S. J., 3d ed.)	AW	1,327	
U582	FASTILENE BLUE F	AW	203	
U583	FASTILENE GREEN GG	AW	127	
	FASTILENE VIOLET		295	220
U584	Fastilene Violet B	AW		
U585	Fastilene Violet R	AW		
U586	FASTILENE YELLOW	AW	633	
U587	GREEN BX	AW	608	
U588	PARA YELLOW (S.; Kal. 1913)	AW	110	
	SULPHOLINE		3,047	725
U589	Sulpholine G extra S	AW		
U590	Sulpholine R extra	AW		
U591	VIOLETTINE 3 R	AW	1,001	
U592	CARMINE special	P	198	
U593	FRENCH RED (S. J., 2d ed., 73)	P	99	
U594	SEAL BROWN W	P	500	
U595	FRAISE	P	2,980	
U596	BROWN PCC paste	DH	496	
U597	CHROMOPURPURINE II paste	DH	382	
U598	FAT COLOR	DH	25	
U599	LILAC PC paste	DH	450	

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U600	RED PC paste	DH	500	
U601	YELLOW PC paste	DH	886	
U602	ACID CORINTH 240 S.	G	551	
	ACID PURE BLUE		5,521	$2,137
U603	Acid Pure Blue R superfine (S.; Kal. 1907)	G		
U604	Acid Pure Blue RC (S.; Kal. 1907)	G		
U605	BLACK soluble in fats	G	220	
U606	BLUE PCV paste	G	476	
	BROWN		703	186
U607	Brown GC (Rolipss)	G		
U607	Brown PCC	G		
	CHROMAL FAST BROWN		110	23
U608	Chromal Fast Brown G powder	G		
U609	Chromal Fast Brown R powder	G		
	ERIO VIOLET		21,345	6,117
U610	Erio Violet BC (S. 1910)	G		
U611	Erio Violet RLC (S. 1910)	G		
U612	ERIOCHROMAL BROWN EB conc. (Kal. 1914)	G	55	
U613	ERIOCHROMAL GRAY 5 G conc. (Kal. 1914)	G	55	
U614	ERIOCHROME GERANOL R conc	G	55	
	ERIOCHROME GREEN		7,220	2,702
U615	Eriochrome Green H	G		
U616	Eriochrome Green L (S.; Kal. 1909)	G		
U617	Eriochrome Green M (Kal. 1909)	G		
U618	Eriochrome Green O	G		
U619	ERIOCHROME OLIVE G (S. 1906)	G	2,337	
	ERIOFLOXINE		3,440	894
U620	Eriofloxine 6 B (S.; Kal. 1912)	G		
U621	Eriofloxine 2 G (S.; Kal. 1912)	G		
U621	Eriofloxine 2 G superfine	G		
U622	FAST BLACK superfine	G	441	
	FAST BLUE		2,932	609
U623	Fast Blue BB conc	G		
U624	Fast Blue Z	G		
U625	FAST BROWN GS	G	992	
U626	GALLAZOL BLUE 4 G paste (S.; Kal. 1911)	G	110	
U627	HYLIDINE PONCEAU 2 R	G	1,102	
U628	INDIAN RED pure conc	G	882	
U629	JASMINE high conc. (Kal. 1912)	G	5,776	
U630	LAKE BLACK P	G	904	
U631	LILAC PC	G	441	
U632	METHYL GALLUS BLUE	G	441	
	POLAR ORANGE		805	211
U633	Polar Orange GS conc. (Kal. 1914)	G		
U634	Polar Orange RC (Kal. 1914)	G		
	POLAR RED		2,821	692
U635	Polar Red 3 B conc. (Kal. 1914)	G		
U636	Polar Red G conc. (S.; Kal. 1913)	G		
U637	Polar Red R conc. (S.; Kal. 1913)	G		
U638	Polar Red RS conc. (Kal. 1914)	G		
	POLAR YELLOW		782	257
U639	Polar Yellow G superfine (Kal. 1914)	G		
U640	Polar Yellow 2 G conc	G		
U641	Polar Yellow R conc. (Kal. 1914)	G		

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U642	RED PC paste	G	432	
U643	SELLA BRILLIANT YELLOW P superfine	G	534	
U644	SELLA FLAVINE G conc	G	943	
U645	SPIRIT BLACK	G	661	
U646	WOOL BLACK 6 G extra conc	G	1,102	
U647	WOOL YELLOW S	G	1,058	
	ACETYLENE BLUE		1,099	$373
U648	Acetylene Blue 3 B (S.; S. J., 2d ed., 949). (Derivative of naphthacetol-disulphonic acid) 1899	G		
U649	Acetylene Blue 6 B (S.)	G		
U650	ANTHRACENE ACID GREEN (S.; a triphenylmethane derivative)	G	99	
U651	BENZYL BLUE B (S. 1903)	I	99	
	BENZYL BORDEAUX		2,595	379
U652	Benzyl Bordeaux B (S. 1903)	I		
U652	Benzyl Bordeaux 17619	I		
U653	BLUE CA	I	55	
U654	BRILLIANT FAST BLACK	I	330	
	CHROME ACID BLACK		4,599	690
U655	Chrome Acid Black (S. 1905)	I		
U656	Chrome Acid Black RSI new	I		
U657	CHROME FAST BLUE R (S.; Kal. 1903)	I	1,001	
U658	CHROME FAST BLUE 13366	I	1,213	
U659	CLOTH FAST BLACK B (Kal. 1914)	I	324	
	CLOTH FAST BLUE		3,796	839
U660	Cloth Fast Blue B	I		
U661	Cloth Fast Blue GTB conc. 300 per cent	I		
U662	Cloth Fast Blue R	I		
U663	COLUMBO BLUE 4 R	I	220	
U664	CYANOGEN BLUE 13623	I	1,764	
U665	FAST ACID NAVY BLUE GRI conc	I	225	
U666	FAST BRILLIANT BLACK 12349	I	110	
U667	INDIA ROSE bluish 17285	I	165	
U668	KITON BLUE N conc	I	2,403	
U669	KITON FAST ORANGE G (Kal. 1913, 1914)	I	496	
	KITON FAST YELLOW		3,157	1,223
U670	Kiton Fast Yellow 3 G (S.; Kal. 1910)	I		
U671	Kiton Fast Yellow R	I		
	KITON RED		615	188
U672	Kiton Red 6 B (Kal. 1913)	I		
U673	Kiton Red G (Kal. 1913)	I		
U674	KITON VIOLET 12 B (Kal. 1908)	I	476	
	KITON YELLOW		8,204	1,682
U675	Kiton Yellow G	I		
U676	Kiton Yellow GG (S.; Kal. 1908)	I		
U677	LEATHER BLACK I	I	3,504	
U678	NAPHTHOCHROME VIOLET R	I	1,400	
U679	OPALINE BLUE R	I	551	
U680	PHENANTHRENE CHROME BLUE	I	386	

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U681	PINK B extra (S. 1907)	I	772	
	SEPIA BLACK		10,527	$2,367
U682	Sepia Black FW	I		
U682	Sepia Black 14998	I		
	SOLFIGENE BLUE GREEN		220	132
U683	Solfigene Blue Green 16444	I		
U684	Solfigene Blue Green B 300 per cent	I		
U685	SOLFIGENE CUTCH	I	220	
U686	SOLFIGENE CYANINE	I	331	
	SOLFIGENE DEEP BLACK		61,949	9,509
U687	Solfigene Deep Black 14717	I		
U688	Solfigene Deep Black 14986	I		
U689	SOLFIGENE GREEN GG	I	496	
U690	TOLAMINE VIOLET	I	1,001	
U691	TONKA BROWN GS	I	1,874	
U692	TURMERIC YELLOW OOO conc	I	999	
U693	WOOL FAST BLUE L	I	99	
U694	ACID RED FL	S	2,315	
	BLUE		13,657	3,627
U695	Blue AS 24426	S		
U696	Blue N	S		
U697	Blue 25	S		
U698	Blue 26	S		
U699	BRILLIANT BLUE G	S	99	
U700	BROWN 43 conc	S	99	
U701	CALCUTTA BLUE 2	S	26,669	
U702	CHROME LEATHER BLACK E extra	S	99	
U703	CHROME LEATHER BROWN R	S	66	
U704	DIRECT FAST SCARLET 4 BS	S	441	
	DIRECT SCARLET		4,903	1,667
U705	Direct Scarlet B	S		
U706	Direct Scarlet 3 B	S		
U707	GREEN 21	S	3,836	
	MERIDIAN BLACK		15,157	3,316
U708	Meridian Black AE	S		
U709	Meridian Black AN	S		
	METAMINE BROWN		1,201	249
U710	Metamine Brown conc	S		
U710	Metamine Brown conc. 5½ : 10	S		
U711	OMEGA CHROME CYANINE R paste 50 per cent (Kal. 1913)	S	21,001	
U712	OMEGA CHROME RED B conc. 5 : 10	S	882	
U713	PAPER BLUE 33598 crystals	S	331	
U714	ULTRA FLAVINE SD (Kal. 1914)	S	22	
U715	YELLOW 15	S	606	
	ALPHA BLACK		12,100	2,949
U716	Alpha Black 6 BN	CV		
U717	Alpha Black JC extra	CV		
U718	ALPHA CHROME BLUE A extra	CV	5,900	
	ALPHA CHROME BROWN		1,250	473
U719	Alpha Chrome Brown 6 GA	CV		
U720	Alpha Chrome Brown N	CV		

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U721	ALPHA CHROME GREEN 6 B	CV	100	
U722	ALPHA CHROME ORANGE RK	CV	50	
U723	ALPHA CHROME RED 3 B	CV	200	
U724	ALPHA CHROME YELLOW C	CV	5,700	
	BRILLIANT BLUE		5,500	$2,905
U725	Brilliant Blue A conc	CV		
U726	Brilliant Blue GG conc	CV		
	CYANTHRACENE BLUE		250	180
U727	Cyanthracene Blue 3 B	CV		
U728	Cyanthracene Blue 2 BL	CV		
U729	CYANTHRACENE YELLOW S	CV	100	
U730	DIAZOMINE RED L extra	CV	250	
	CACHOU		56,591	3,430
U731	Cachou GL	Lev		
U731	Cachou OX	Lev		
U731	Cachou R	Lev		
U731	Cachou 2 R	Lev		
U731	Cachou 125	Lev		
U731	Cachou 192	Lev		
U731	Cachou 209	Lev		
U731	Cachou 761	Lev		
U732	COTTON DARK GREEN 138	Lev	100	
	COTTON GREEN		4,921	818
U733	Cotton Green A	Lev		
U733	Cotton Green B	Lev		
U733	Cotton Green 88 A	Lev		
U733	Cotton Green 105 A	Lev		
U734	COTTON OLIVE	Lev	40	
	COTTON VIOLET		3,004	467
U735	Cotton Violet X	Lev		
U735	Cotton Violet 43 A	Lev		
U736	DARK PURPLE printing paste	Lev	522	
U737	FAST MORDANT BLUE B (Kal. 1907)	Lev	92	
	LEATHER ORANGE		1,704	258
U738	Leather Orange B	Lev		
U739	Leather Orange BY	Lev		
	VULCAN BLUE		300	324
U740	Vulcan Blue BO	Lev		
U741	Vulcan Blue G	Lev		
U742	WOOL CLARET 21 B	Lev	1,344	
	WOOL CLARET RED		1,542	258
U743	Wool Claret Red 87 B	Lev		
U743	Wool Claret Red 211	Lev		
U743	Wool Claret Red 357	Lev		
	ALIZADINE BLACK		18,979	1,986
U744	Alizadine Black	H		
U744	Alizadine Black 8 per cent	H		
U744	Alizadine Black M	H		
U745	ALIZADINE DEEP BROWN 3 R (S.; 1910)	H	678	
U746	ALIZADINE ORANGE M extra (Kal. 1911)	H	400	
U748	ALIZADINE YELLOW Y (S. 1907)	H	400	
	BLACK		138,805	14,781
U749	Black CE	H		
U749	Black DX	H		
U749	Black M 30 per cent	H		
U749	Black M 40 per cent	H		
U749	Black N	H		

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
	BLACK—Continued.			
U749	Black RW	H		
U749	Black X	H		
U749	Black 47044 25 per cent	H		
U749	Black 61767	H		
U749	Black 65450	H		
U749	Black 69206	H		
U749	Black 74642	H		
	BLUE		7,373	$1,975
U750	Blue DS	H		
U750	Blue 46237 7½ per cent	H		
U750	Blue 49141	H		
U750	Blue 51096	H		
U750	Blue 52996	H		
U750	Blue 73302	H		
U751	CALCUTTA BLACK D 10 per cent	H	569	
U752	CONCENTRATED BLUE BB 120	H	193	
U753	DISULPHINE BLUE 47073 DS	H	3,150	
U754	MERCEROL BROWN 3 R (Kal. 1909)	H	350	
U755	MERCEROL ORANGE 2 R (Kal. 1909)	H	696	
U756	MERCERINE WOOL SCARLET 5 B (S. 1906)	H	100	
	NAPHTHALENE BLACK		6,996	1,450
U757	Naphthalene Black 12 B (S. 1903)	H		
U758	Naphthalene Black D	H		
	OIL BLACK		1,339	297
U759	Oil Black 11410	H		
U759	Oil Black 39694	H		
U760	OIL COLOR BROWN	H	27	
U761	OIL COLOR CANARY	H	74	
U762	OIL COLOR YELLOW	H	113	
U763	PINK M	H	100	
U764	RAVEN BLACK 34588	H	1,328	
U765	WOOL CANARY OD	H	2,736	
	XL BLUE		10,047	2,126
U770	XL Blue	H		
U770	XL Blue GR	H		
U771	XL GREEN Y (S. 1910)	H	1,280	
U772	XL MAROON	H	10	
	YELLOW		2,182	445
U773	Yellow 20	H		
U773	Yellow FY	H		
U773	Yellow 33413	H		
U773	Yellow 41471	H		
U774	ACID PURPLE	Q	480	117
	ACID RED		1,830	262
U775	Acid Red CB	Q	1,110	131
U776	Acid Red G	Q	720	131
	ACID SCARLET		6,114	795
U777	Acid Scarlet G	Q	1,260	229
U778	Acid Scarlet 2 R	Q	4,262	428
U779	Acid Scarlet SG	Q	492	68
U780	ACID SILVER GRAY	Q	55	101
U781	ACID VIOLET BLUE	Q	33	52
U782	ACID VIOLET RED	Q	33	46
U783	ALIZARIN LAKE	Q	697	1,126

XIX. UNCLASSIFIED COAL-TAR COLORS—Continued.

No.	Commercial names.	Manufacturer.	Importation.	
			Pounds.	Value.
U784	ALIZARIN ROSE GWG	Q	606	$20
U785	AUSTRIAN BLACK	Q	44	69
	AZOMINE YELLOW		1,200	208
U786	Azomine Yellow G	Q	480	77
U787	Azomine Yellow R	Q	720	131
U788	BASIC GRAY	Q	245	44
U789	BASIC VIOLET	Q	240	68
	BLUE		1,102	589
U790	Blue DB	Q	220	118
U791	Blue DR	Q	882	471
U792	BORDEAUX BLACK	Q	4,603	962
	BRILLIANT BLUE		150	77
U793	Brilliant Blue 217	Q	99	62
U794	Brilliant Blue 286	Q	51	15
U795	BRILLIANT BROWN 205	Q	150	43
	COTTON VIOLET		1,433	655
U796	Cotton Violet 2 B	Q	331	93
U797	Cotton Violet 5 B	Q	882	395
U798	Cotton Violet R conc	Q	220	167
U799	DICHROINE BROWN	Q	2,640	302
U800	DIRECT SCARLET AB	Q	1,102	238
U801	FAST CHROME BLUE FR	Q	1,102	428
U802	FRENCH BLUE	Q	55	87
U803	GREEN 241	Q	51	19
U804	OLD GOLD	Q	927	292
U805	OLEATE GREEN O extra	Q	82	37
U806	PINK COLOR	Q	240	39
U807	RED COLOR	Q	25	24
U808	RED SCARLET	Q	110	46
U810	SCARLET XK	Q	551	68
U811	SILK YELLOW N	Q	1,102	713
	SOLID BROWN		1,440	297
U812	Solid Brown	Q	1,200	243
U813	Solid Brown KF	Q	240	54
U814	SOLID RED B	Q	1,680	307
U815	THIO VESUVINE BB extra	Q	121	10
U816	VARNISH BLACK 5 R	Q	1,653	345
U817	YELLOW NF	Q	661	521

COAL-TAR DYESTUFFS, WITHOUT SPECIAL DESIGNATION, IMPORTED INTO THE UNITED STATES DURING THE FISCAL YEAR ENDING JUNE 30, 1914.

	Pounds.	Value.		Pounds.	Value.
Pink	308	$242	Violet	531	$181
Red	3,052	1,053	Brown	2,794	780
Orange	213	74	Black	3,447	379
Yellow	2,180	600	Not specified	9,303	2,791
Green	475	254			
Blue	1,995	1,003	Total	24,298	7,357

INDEX OF DYESTUFFS.

The dyestuffs enumerated in the preceding list are classified in accordance with their chemical nature. In order to facilitate rapid reference from a purely commercial standpoint, they are here arranged in alphabetical order.

Reference is made to the serial numbers (1–923) for colors of known composition. Colors of unknown composition are found in four categories:

1. Azo colors, Nos. A1 to A765, beginning at page 110.
2. Sulphur Black colors, Nos. 720(A)a to 720(H)i, beginning at page 170.
3. Sulphur colors (other than Sulphur Black), Nos. S1 to S181, beginning at page 175.
4. Other unclassified colors, Nos. U1 to U817, beginning at page 196.

The references in parentheses, (Sch.), (H. & M.), (By Co.), (W. B.), (C. D. Co.), (Cons. C. C. Co.), and (Hub), indicate colors currently manufactured prior to 1915 in American dyestuff works, as enumerated on pages 26 to 29.

Name.	Manufacturer.	Serial No.
Acetyl Red GX	B	U90
Acetylene Blue 3 B	G	U648
Acetylene Blue 6 B	G	U649
Acid Alizarin Black	M	159
Acid Alizarin Black R	M	159
Acid Alizarin Black SR	CV	288a
Acid Alizarin Blue BB, GR	M	790
Acid Alizarin Garnet R	M	155
Acid Alizarin Green B, G	M	796
Acid Alizarin Green 3 G	I	796a
Acid Alizarin Yellow GGW	M	294
Acid Anthracene Brown M	By	88a
Acid Anthracene Brown P	By	88a
Acid Anthracene Brown PG	By	88a
Acid Anthracene Brown R	By	88
Acid Anthracene Brown RH	By	88a
Acid Anthracene Brown W	By	88a
Acid Anthracene Brown WSG	By	88a
Acid Anthracene Red 3 B	By	400
Acid Anthracene Red 5 BL	By	400a
Acid Anthracene Red G	By	400a
Acid Black	AW	217e
Acid Black AO	I	217e
Acid Black AS	Q	269c
Acid Black 10 B	(WB)	217
Acid Black 6 BA	CG	217e
Acid Black 4 BD	I	217e
Acid Black BR	G	269c
Acid Black BR	tM	269
Acid Black D	I	217e
Acid Black E	By	A144
Acid Black EW	Q	269c
Acid Black G	I	217e
Acid Black H	S	217e
Acid Black HA	I	217e
Acid Black HAS	I	217e
Acid Black KB	Q	269c
Acid Black M	By	A145
Acid Black M	BK	217e
Acid Black M	H	269c
Acid Black SO	S	217e
Acid Black 32	H	269c
Acid Black 2034	K	217e
Acid Black 2195	BK	217e
Acid Black 57257	A	U63
Acid Blue	AW	543c
Acid Blue	(H&M)	539
Acid Blue	K	U301
Acid Blue greenish	K	U301
Acid Blue B	S	565
Acid Blue 7 B	S	565b
Acid Blue BA	Q	543c
Acid Blue C	Q	543c
Acid Blue DRS	Q	543c
Acid Blue E	AW	543c
Acid Blue EX	S	565b
Acid Blue OG	K	U301
Acid Blue AG	K	U301
Acid Blue PN	Q	543c
Acid Blue R	AW	543c
Acid Blue R	S	565b
Acid Blue 5 R	Q	543c
Acid Blue V	AW	543c
Acid Blue Y	AW	543c
Acid Blue 466	M	U400
Acid Blue 22244	S	565b
Acid Blue 23579	S	565b
Acid Blue Black	AW	A531
Acid Brilliant Red 2 B	By	A146
Acid Brown	C	U273
Acid Brown R	K	212a
Acid Brown RN	G	212a
Acid Brown SR	K	212a
Acid Brown V	I	212a
Acid Brown Y	P	212
Acid Chrome Black G	I	A147a
Acid Chrome Black LG	By	A147
Acid Chrome Black RH	By	A148
Acid Chrome Black RH	G	A610
Acid Chrome Black RHN	BK	A148a
Acid Chrome Black WS	By	A149
Acid Chrome Black 1551	CV	A723
Acid Chrome Blue	K	U302
Acid Chrome Blue (reddish)	AW	A532
Acid Chrome Red B	By	U209
Acid Chrome Blue B	CV	A724
Acid Chrome Blue 3 G	By	U206
Acid Chrome Red N	CV	A725
Acid Chrome Blue 2 R	By	U207
Acid Chrome Blue 5 R	By	U208
Acid Chrome Violet R	By	U210
Acid Corinth	tM	U522
Acid Corinth 240 S	G	U602
Acid Cresol Black 4196	GrE	U501

Name.	Manufacturer.	Serial No.
Acid Crimson	S	166a
Acid Crimson D	Q	166a
Acid Cyanine BF	A	705b
Acid Dark Green	I	505b
Acid Eosine CA	B	590a
Acid Eosine G	B	590a
Acid Eosine 3 G	CJ	590a
Acid Eosine L new	B	590a
Acid Eosine LB	B	590a
Acid Eosine L 27314	B	590a
Acid Eosine SP	B	590a
Acid Eosine 1632	K	590a
Acid Eosine 13389	CJ	590a
Acid Fast Blue SB	(WB)	189
Acid Fast Blue SR	(WB)	188
Acid Fast Green 8 B	AW	A533
Acid Fast Violet	AW	U551
Acid Green	I	504
Acid Green	tM	502a
Acid Green	WD	505
Acid Green (V. M.)	C	505a
Acid Green 2 A	tM	502a
Acid Green B	tM	502a
Acid Green 2 BA	tM	502a
Acid Green 2 B	P	502
Acid Green G	K	505
Acid Green GG	By	505
Acid Kraft Brown	B	U91
Acid Magenta	By	524
Acid Magenta	C	524
Acid Magenta	H	524
Acid Magenta	(Sch)	524
Acid Magenta 6 B	CV	524
Acid Magenta B	G	524
Acid Magenta F	G	524
Acid Magenta FCNS	GrE	524
Acid Magenta G	G	524
Acid Magenta O	M	524
Acid Magenta S	A	524
Acid Magenta S	B	524
Acid Magenta S	GrE	524
Acid Magenta 2	CV	524
Acid Magenta Crystals I	CV	524
Acid Milling Scarlet	ClCo	484
Acid Navy Blue SL	AW	A534
Acid Olive 2764	K	U393
Acid Phosphine R	CR	606d
Acid Pure Blue R	G	U603
Acid Pure Blue RC	G	U604
Acid Purple	Q	U774
Acid Red 2 B	K	U304
Acid Red 4 B	K	U304
Acid Red 6 BF	BK	U478
Acid Red CB	Q	U775
Acid Red FL	S	U694
Acid Red G	K	U304
Acid Red G	Q	U776
Acid Red 3 G	K	U304
Acid Red R	K	U304
Acid Red 4 R	K	U304
Acid Red S	AW	A536
Acid Red 3 S	K	U304
Acid Red 019	K	U304
Acid Red 1622	K	U304
Acid Red 1642	K	U304
Acid Red 1645	K	U304
Acid Rhodamine B	B	U92
Acid Rhodamine 3 B	B	U93
Acid Rhodamine BG	B	U94
Acid Rhodamine G	B	U95
Acid Rhodamine R	B	U95
Acid Rosamine A	M	583
Acid Rubine	CJ	524
Acid Scarlet G	Q	U777
Acid Scarlet 2 R	Q	U778
Acid Scarlet SG	Q	U779
Acid Silk Black R	By	A150
Acid Silver Gray	Q	U780
Acid Sky Blue	AW	A535
Acid Violet (V. M.)	C	530a
Acid Violet B	BK	530a
Acid Violet BB	B	530a
Acid Violet 2 B	H	534a
Violet 2 B	K	530a

Name.	Manufacturer.	Serial No.
Acid Violet 4 B	By	530
Acid Violet 4 B	K	530a
Acid Violet 4 B	Q	530
Acid Violet 5 B	AW	530
Acid Violet 5 B	By	530
Acid Violet 5 B	G	530a
Acid Violet 5 B	K	530a
Acid Violet 6 B	A	529
Acid Violet 6 B	G	530
Acid Violet 6 B	H	548
Acid Violet 6 B	tM	530
Acid Violet 7 B	AW	527
Acid Violet 7 B	B	534
Acid Violet 7 B	H	534
Acid Violet 7 B	I	534
Acid Violet 7 B	K	530a
Acid Violet 8 B	By	527a
Acid Violet 4 BC	B	530
Acid Violet 5 BF	M	530a
Acid Violet 4 BL	B	530a
Acid Violet 4 BLO	B	530a
Acid Violet 4 BLOO	K	530a
Acid Violet 4 BN	B	527
Acid Violet 6 BN	B	548
Acid Violet 6 BN	I	548
Acid Violet 6 BN	tM	530
Acid Violet 6 BN	WD	548
Acid Violet 7 BN	By	527
Acid Violet 7 BN	M	533
Acid Violet 6 BNB	By	527
Acid Violet 6 BNG	G	530
Acid Violet 3 BNO	B	530a
Acid Violet 6 BNO	B	530a
Acid Violet 6 BNOO	K	530a
Acid Violet 4 BNS	S	527
Acid Violet 5 BNS	S	561
Acid Violet 4 BS	Q	530
Acid Violet 6 BS	WD	548
Acid Violet BSC	K	530a
Acid Violet 4 BV	AW	530a
Acid Violet BW	By	527a
Acid Violet C 2 B	B	530a
Acid Violet C 10 B	B	530a
Acid Violet C 10 B	AW	530a
Acid Violet D	S	561a
Acid Violet HB	H	534a
Acid Violet HW	By	527a
Acid Violet KB	K	530a
Acid Violet NFDS	H	534a
Acid Violet NG	K	530a
Acid Violet PW	B	530a
Acid Violet R	By	527a
Acid Violet R	G	530a
Acid Violet R	Q	530a
Acid Violet 4 R	B	530a
Acid Violet 4 R	By	527a
Acid Violet 4 R	I	534a
Acid Violet 4 RN	K	530a
Acid Violet 4 RS	M	526
Acid Violet RX	H	534a
Acid Violet S	S	561a
Acid Violet SB	Q	530a
Acid Violet 1704	K	530a
Acid Violet 2405	tM	530a
Acid Violet 4746	BK	530a
Acid Violet 10471	I	534a
Acid Violet 10475	I	534a
Acid Violet 18502	I	534a
Acid Violet 26449	S	561a
Acid Violet Blue	Q	U781
Acid Violet Red	Q	U782
Acid Wool Black	Q	217h
Acid Yellow	A	137
Acid Yellow	AW	137
Acid Yellow AC	K	137
Acid Yellow D	A	139
Acid Yellow FY	H	137
Acid Yellow G	A	137
Acid Yellow G	BK	137
Acid Yellow G	Q	137
Acid Yellow G	S	137
Acid Yellow GG	GrE	136
Acid Yellow GF	H	137

Name.	Manufacturer.	Serial No.
Acid Yellow LR	K	137
Acidol Azo Violet R	tM	A512
Acidol Azo Violet S	tM	A513
Acidol Fast Violet A 2 R	tM	A514
Acidol Violet BR	tM	U523
Acridine Golden Yellow	G	602a
Acridine Golden Yellow 54666 A	L	602a
Acridine Orange NOO	L	603
Acridine Orange R	L	604
Acridine Red B	L	569
Acridine Yellow	L	602
Agalma Black 4 BX	B	217a
Agalma Black 10 BX	B	217
Agalma Black 201211	B	217a
Agalma Black Green T	B	217b
Agalma Green B	B	542
Algol Blue G	By	844a
Algol Blue 3 G	By	844
Algol Blue K	By	839
Algol Blue 3 RP	By	821
Algol Bordeaux 3 B	By	829
Algol Brilliant Orange FR	By	822
Algol Brilliant Red 2 B	By	819
Algol Brilliant Violet 2 B	By	821
Algol Brilliant Violet R	By	820
Algol Brown B	By	869
Algol Brown R	By	869a
Algol Corinth R	By	870
Algol Dark Green B	By	847a
Algol Gray B	By	834
Algol Gray BB	By	834
Algol Green B	By	847
Algol Olive R	By	833
Algol Orange R	By	824
Algol Pink R	By	818
Algol Red B	By	825
Algol Red FF	By	819
Algol Red 2 G	By	816a
Algol Red 3 G	By	816a
Algol Red 5 G	By	816
Algol Red R	By	819
Algol Scarlet G	By	815
Algol Violet B	By	823
Algol Yellow 3 G	By	811
Algol Yellow 6 GL	By	811a
Algol Yellow R	By	817
Algol Yellow WF	By	814
Alizadine Black	H	U744
Alizadine Black M	H	U744
Alizadine Deep Brown 3 R	H	U745
Alizadine Orange M	H	U746
Alizadine Yellow Y	H	U748
Alizarin paste	Br. Aliz. Co.	778
Alizarin powder	Br. Aliz. Co.	778
Alizarin	Q	780
Alizarin 11 AB	By	778
Alizarin D 1140	M	778
Alizarin D 1149	M	778
Alizarin D 1399	M	778
Alizarin DCR	M	806a
Alizarin GD	B	784
Alizarin GGX	By	785a
Alizarin GI	B	785a
Alizarin I	M	778
Alizarin IB	By	778
Alizarin IB	M	778
Alizarin IP	By	778
Alizarin IT	M	778
Alizarin IWS	M	780
Alizarin RG	B	785
Alizarin RVT	By	784a
Alizarin S	By	784b
Alizarin SDG	M	785
Alizarin SX	B	784
Alizarin V 1	B	778
Alizarin V 2 A	B	778
Alizarin W	By	780
Alizarin 11 X	By	778
Alizarin XGP	By	785a
Alizarin XP	By	785a
Alizarin 744	M	778
Alizarin 1140	M	778
Alizarin Astrol	By	856
Alizarin Azurine D 3 R	M	U401
Alizarin Black (V.M.)	C	774b
Alizarin Black AB	AW	774b
Alizarin Black AB	CV	774b
Alizarin Black AC	M	806a
Alizarin Black B	By	774b
Alizarin Black 3 B	By	774b
Alizarin Black 8 B	AW	774b
Alizarin Black DES	M	806a
Alizarin Black EN	M	806a
Alizarin Black ENT	M	806a
Alizarin Black IA	By	774b
Alizarin Black P	M	806
Alizarin Black R	M	806a
Alizarin Black S	B	774
Alizarin Black SE	M	807
Alizarin Black SET	M	807
Alizarin Black SN	M	807
Alizarin Black SNT	M	807
Alizarin Black SR	B	774
Alizarin Black WR	B	774
Alizarin Blue (V.M.)	C	803a
Alizarin Blue A	By	803a
Alizarin Blue A	M	803
Alizarin Blue AS	By	803a
Alizarin Blue B	M	803a
Alizarin Blue B	Q	803a
Alizarin Blue BB	M	803a
Alizarin Blue BR	By	803a
Alizarin Blue BR 3 G	By	803a
Alizarin Blue DB	M	803a
Alizarin Blue DH 6 GM	M	803a
Alizarin Blue DN	M	803a
Alizarin Blue D 2 R	M	803a
Alizarin Blue D 4 R	M	803a
Alizarin Blue GR	M	803a
Alizarin Blue GW	M	803a
Alizarin Blue GWDS	By	803a
Alizarin Blue HJ	By	803a
Alizarin Blue IIX	By	803a
Alizarin Blue JR	By	803a
Alizarin Blue NFA	By	803a
Alizarin Blue NHN	By	803a
Alizarin Blue NS	By	803a
Alizarin Blue NSG	By	803a
Alizarin Blue SAE	By	804
Alizarin Blue SAP	By	804
Alizarin Blue SAWSA	By	804
Alizarin Blue SB	M	804a
Alizarin Blue SRM	M	804
Alizarin Blue WX	B	803
Alizarin Blue 942	M	804a
Alizarin Blue (violet shade)	S	803a
Alizarin Blue (violet shade) P	S	803a
Alizarin Blue Black B	C	774a
Alizarin Blue Black B	CV	862
Alizarin Blue Black B	M	862
Alizarin Blue Black B	Q	862
Alizarin Blue Black 3 B	By	862
Alizarin Blue Black 3 B	M	862
Alizarin Blue Black GT	B	774a
Alizarin Bordeaux B, BD	By	787
Alizarin Brown	M	782
Alizarin Brown B	M	782
Alizarin Brown D 3 GO	M	782
Alizarin Brown DR	M	782
Alizarin Brown N	M	782
Alizarin Brown O	Q	782
Alizarin Brown RR	M	782
Alizarin Claret R	M	U404
Alizarin Claret Red DB	M	U405
Alizarin Claret Red DG	M	U406
Alizarin Chrome Blue T	S	803b
Alizarin Chrome Brown DG	M	U402
Alizarin Chrome Brown DR	M	U403
Alizarin Crimson DB	M	U407
Alizarin Crimson DG	M	U408

Name.	Manufacturer.	Serial No.
Alizarin Cyanine G	By	799
Alizarin Cyanine R	By	788
Alizarin Dark Blue DR	M	804b
Alizarin Dark Blue S	M	804b
Alizarin Dark Green W	B	775
Alizarin Direct Blue B	M	851
Alizarin Direct Blue EB	M	851a
Alizarin Direct Blue ESB	M	851a
Alizarin Direct Blue ESR	M	851a
Alizarin Direct Cyanine FA	M	U409
Alizarin Direct Green G	M	865
Alizarin Direct Yellow DR	M	U410
Alizarin Direct Yellow DS	M	U411
Alizarin Fast Blue DGL	M	U412
Alizarin Fast Brown DB	M	U413
Alizarin Fast Brown D 3 R	M	U414
Alizarin Fast Brown 3 R	M	U415
Alizarin Fast Gray DBL	M	U416
Alizarin Fast Orange DO	M	U417
Alizarin Fast Red D 244	M	U418
Alizarin Fast Scarlet D 6 BS	M	U419
Alizarin Fast Scarlet D 8 BS	M	U420
Alizarin Garnet	AW	797
Alizarin Garnet R	M	797
Alizarin Gray	C	774d
Alizarin Gray G	M	U421
Alizarin Green B	WD	657
Alizarin Green BB	M	805
Alizarin Green C	By	808a
Alizarin Green CE	By	808a
Alizarin Green CG	By	808a
Alizarin Green CK	By	808a
Alizarin Green DGN	M	805
Alizarin Green DMA	M	805
Alizarin Green G	WD	656
Alizarin Green 3 G	M	805
Alizarin Green S	B	808
Alizarin Green S	M	805
Alizarin Green SP 4	By	808a
Alizarin Green SW	M	805
Alizarin Green V	By	808a
Alizarin Green VD	By	808a
Alizarin V 3 W	B	778
Alizarin Green WB	M	805
Alizarin Green X	B	808
Alizarin Indigo B	By	894
Alizarin Indigo G	By	893
Alizarin Indigo 3 R	By	895
Alizarin Indigo Blue S	B	809
Alizarin Indigo Green B	By	894a
Alizarin Indigo Violet B	By	894b
Alizarin Irisol D, R	.....	852
Alizarin Lake	Q	U783
Alizarin Light Red D 8 BW	M	U422
Alizarin Milling Black 8 B	AW	774c
Alizarin Maroon W	B	798
Alizarin Orange	M	779
Alizarin Orange A	B	779
Alizarin Orange DG	M	779
Alizarin Orange DN	M	779
Alizarin Orange GR	M	779
Alizarin Orange R	By	779
Alizarin Pure Blue B	By	855
Alizarin Pure Blue DPH	M	U423
Alizarin Pure Yellow DHS	M	U424
Alizarin Red (yellow)	M	780a
Alizarin Red D 4 B	M	780a
Alizarin Red D 10 B	M	780a
Alizarin Red DG	M	780a
Alizarin Red G	M	780a
Alizarin Red IWS	M	780
Alizarin Red SWB	B	780
Alizarin Red SWBB	B	780
Alizarin Red SWR	B	780
Alizarin Red WB	B	780
Alizarin Red 3 WS	M	786
Alizarin Rose GWG	Q	U784
Alizarin Rubinol 5 G	By	856a
Alizarin Rubinol R	By	856a
Alizarin Saphirol B	By	858
Alizarin Sky Blue B	By	804c
Alizarin Uranol 2 B	By	U211
Alizarin Uranol R	By	U212
Alizarin Violet (V. M.)	C	599
Alizarin Violet BL	Q	599
Alizarin Violet DH	M	599
Alizarin Viridine DG, FF	By	854
Alizarin Violet N	M	599
Alizarin Yellow A	B	770
Alizarin Yellow C	B	769
Alizarin Yellow CY	By	48
Alizarin Yellow DGC	M	48
Alizarin Yellow D 3 G	M	48
Alizarin Yellow DOG	M	48
Alizarin Yellow DOO	M	48
Alizarin Yellow DR	M	48
Alizarin Yellow FF	(WB)	48
Alizarin Yellow FS	DH	482
Alizarin Yellow G	S	48
Alizarin Yellow GG	By	48
Alizarin Yellow GG	I	48
Alizarin Yellow GG	M	48
Alizarin Yellow 5 G	I	48
Alizarin Yellow 5 G	M	48
Alizarin Yellow GGW	M	48
Alizarin Yellow O	M	58a
Alizarin Yellow R	(Cons CCCo)	58
Alizarin Yellow R	(Hub)	58
Alizarin Yellow 3 RN	M	58
Alizarin Yellow RW	M	58
Alkali Black	WD	U538
Alkali Blue	(ByCo)	536
Alkali Blue	(H&M)	536
Alkali Blue	Q	536
Alkali Blues, green shades	(Sch)	536
Alkali Blues, red shades	(Sch)	536
Alkali Blue (V. M.)	C	536
Alkali Blue (for printing ink)	G	536
Alkali Blue (for printing ink)	tM	536
Alkali Blue III	A	536
Alkali Blue IV A	M	536
Alkali Blue 2 AS	M	536
Alkali Blue AWG	M	536
Alkali Blue AWR	M	536
Alkali Blue AWRG	M	536
Alkali Blue 2 B	A	536
Alakli Blue BB	B	536
Alkali Blue 2 B	M	536
Alkali Blue 2 B	tM	536
Alkali Blue 3 B	S	536
Alkali Blue 3 B	tM	536
Alkali Blue 4 B	I	536
Alkali Blue 4 B	M	536
Alkali Blue 5 BA	B	536
Alkali Blue BK 2	K	536
Alkali Blue 5 BL	B	536
Alkali Blue 7 BOO	GrE	536
Alkali Blue D	A	535
Alkali Blue H 5 BKOOO	GrE	536
Alkali Blue HEOOO	GrE	536
Alkali Blue HHRROOO	GrE	536
Alkali Blue I	A	536
Alkali Blue MN	M	536
Alkali Blue N	B	536
Alkali Blue R	I	536
Alkali Blue 3 R	tM	536
Alkali Blue 5 R	tM	536
Alkali Blue 6 R	tM	536
Alkali Blue RM	M	536
Alkali Blue RRM	M	536
Alkali Blue 2	M	536
Alkali Blue 1756	K	536
Alkali Blue 1757	K	536
Alkali Blue 11408	B	536
Alkali Brilliant Blue G	WD	536a
Alkali Brown	WD	190
Alkali Dark Brown G, V	WD	331
Alkali Fast Green 3 G	By	U213
Alkali Fast Yellow	WD	199a
Alkali Rubine	WD	U539
Alkali Violet	K	532
Alkali Violet AS	M	532
Alkali Violet 6 BO	B	532
Alkali Violet LR	By	U214
Alkali Violet 421	K	532
Alkali Yellow	AW	199
Alkali Yellow R	WD	350

Name.	Manufacturer.	Serial No.
Alpha Black 6 BN	CV	U716
Alpha Black JC	CV	U717
Alpha Chrome Blue A	CV	U718
Alpha Chrome Brown 6 GA	CV	U719
Alpha Chrome Brown N	CV	U720
Alpha Chrome Green 6 B	CV	U721
Alpha Chrome Orange RK	CV	U722
Alpha Chrome Red 3 B	CV	U723
Alpha Chrome Yellow C	CV	U724
Alphanol Black (V. M.)	C	A303
Alphanol Blue (V. M.)	C	A308
Amaranth	C	168
Amaranth	(CDCo)	168
Amaranth B	C	168
Amaranth D	BK	168
Amaranth DE	B	U96
Amaranth SA	tM	168
Amethyst Violet	K	686
Amido Acid Black B	A	220a
Amido Acid Black 4 B	A	220a
Amido Acid Black BS	A	220a
Amido Azo Black	M	A413
Amido Black A 2 G	M	217f
Amido Black 10 B	M	217
Amido Black 4024	M	217f
Amido Blue B	M	U425
Amido Blue GGR	M	U426
Amido Dark Bottle Green B	M	U427
Amido Gallamine Blue	DH	638
Amido Naphthol Black 4 B	M	A414
Amido Naphthol Black RK	M	A415
Amido Naphthol Red 2 B	M	66a
Amido Naphthol Red 6 B	M	66
Amido Naphthol Red G	M	42
Amido Red BL	M	A416
Amido Yellow E	M	A417
Amido-azo-benzene		31
Amido-azo-benzene	(CDCo)	31
Amido-azo-toluene	(CDCo)	68
Amine Black 4 B	A	U64
Amine Black 10 B	A	U65
Amine Black 4 BM	A	U66
Amine Black S 4 B	A	U67
Amine Black SL	A	U68
Amine Black Green B	A	U69
Amine Red	A	U70
Aniline Black 15908	B	922
Aniline Blue B	tM	521
Aniline Blue 2 B	A	521
Aniline Blue 3 B	tM	521
Aniline Blue RN	tM	521
Aniline Blue 6416	CG	521
Aniline Red B	I	512
Aniline Yellow	B	6
Aniline Yellow	Q	6
Anthosine B	B	U97
Anthosine 3 B	B	U98
Anthosine 5 B	B	U99
Anthracene Acid Black (V. M.)	C	277
Anthracene Acid Blue (V. M.)	C	A311
Anthracene Acid Brown B	M	492
Anthracene Acid Brown G	C	U650
Anthracene Acid Green	G	A312
Anthracene Black FF	C	221
Anthracene Blue 3 G	M	800a
Anthracene Blue SWG	B	790a
Anthracene Blue SWGG	B	790a
Anthracene Blue SWR	B	790a
Anthracene Blue WB	B	800
Anthracene Blue WG	B	800
Anthracene Blue WGG	B	801
Anthracene Blue WN	B	790a
Anthracene Blue WR	B	789
Anthracene Blue W 3 R	B	789
Anthracene Blue new WG	B	802
Anthracene Blue Black (V. M.)	C	181a
Anthracene Brown	B	782
Anthracene Brown G	By	782a
Anthracene Brown R	By	782a
Anthracene Brown RH	H	782
Anthracene Brown VV	By	782a
Anthracene Brown SW	B	782
Anthracene Chromate(Brown(V.M.)	C	A318
Anthracene Chromate Yellow	C	A322
Anthracene Chrome Blue (V. M.)	C	A313
Anthracene Chrome Black (V. M.)	C	185
Anthracene Chrome Brown	C	A323
Anthracene Chrome Green	C	A325
Anthracene Chrome Red (V. M.)	C	A326
Anthracene Dark Blue W	B	790b
Anthracene Direct Green	C	U274
Anthracene Red	By	355
Anthracene Red	I	355
Anthracene Red WB	B	355
Anthracene Red 10430	I	355
Anthracene Violet	I	599
Anthracene Yellow	By	773
Anthracene Yellow (V. M.)	C	177a
Anthracene Yellow C	By	294
Anthracene Yellow C	BK	294
Anthracene Yellow G	I	773a
Anthracene Yellow RN	M	58b
Anthracene Yellow 3 RN	M	58b
Anthrachrome Red A	L	A501
Anthracite Black	C	267
Anthracyl Blue SWR	CV	A726
Anthracyl Chrome Blue 2 B	tM	A524
Anthracyl Chrome Blue D	tM	A525
Anthracyl Chrome Brown D	WD	154
Anthracyl Chrome Green D	WD	91
Anthraflavone G	B	759
Anthranol Green B	WD	U540
Anthraquinone Black	B	749
Anthraquinone Blue SR	B	861
Anthraquinone Blue Green BXO	B	863
Anthraquinone Green GXNO	B	864
Anthraquinone Violet	B	853
Anthrarubine 395	K	U305
Apollo Red B	G	54
Apollo Red G	G	54
Archil Substitute V	P	52
Archil Substitute 3 VN	P	53
Artificial Silk Black R	By	U216
Artificial Silk Black G	By	U215
Auracine G	By	609a
Auramine	AW	493
Auramine	B	493
Auramine	By	493
Auramine	H	493
Auramine	M	493
Auramine	S	493
Auramine	tM	493
Auramine G	I	494
Auramine G	tM	494
Auramine N	S	493
Auramine O	By	493
Auramine OO	G	493
Auramine OO 3	K	493
Auramine OO 4	K	493
Auramine OOD	B	493
Auramine OOD	K	493
Auramine OOP	I	493
Auramine OEA	B	493
Auramine 23112	K	493
Auramine base	K	493
Aurine	B	555
Auro Flavine KR	M	609c
Auronal Black 3 A	G	722a
Auronal Black 4 A	G	722a
Auronal Black 4 A	tM	722a
Auronal Black B	tM	727
Auronal Black 4 G	tM	722a
Auronal Black 5 G	tM	722a
Auronal Black N 2 R	tM	722
Auronal Black 3	tM	722a
Auronal Blue D	tM	S137
Auronal Green TA	tM	S138
Auronal Orange R	tM	S140
Auronal Orange S	tM	S139
Aurophosphine G	A	606a
Aurophosphine 4 G	A	606a
Austrian Black	Q	U785
Autogene Black	P	732
Autogene Black EEB	P	723

Name.	Manufacturer.	Serial No.
Benzo Brown BX	By	490
Benzo Brown D 3 G	By	485a
Benzo Brown G	By	485
Benzo Brown 5 G	By	485a
Benzo Brown 2 GC	By	485a
Benzo Brown 3 GC	By	485a
Benzo Brown MC	By	485a
Benzo Brown NBX	By	485a
Benzo Brown RC	By	485a
Benzo Brown TR	By	485a
Benzo Chrome Black Blue B	By	A157
Benzo Chrome Brown B	By	A158
Benzo Chrome Brown BS	By	A159
Benzo Chrome Brown G	By	A160
Benzo Chrome Brown 5 G	By	A161
Benzo Chrome Brown R	By	A162
Benzo Copper Blue B	By	A163
Benzo Copper Blue 2 B	By	A164
Benzo Cyanine B	By	390
Benzo Cyanine 3 B	By	425
Benzo Cyanine R	By	336
Benzo Dark Brown	By	A165
Benzo Dark Green B	By	A166
Benzo Dark Green GG	By	A167
Benzo Deep Black SS	By	A168
Benzo Fast Black	G	A611
Benzo Fast Black L	By	A169
Benzo Fast Blue B	By	456
Benzo Fast Blue BN	By	456
Benzo Fast Blue FRL	By	456a
Benzo Fast Blue 2 GL	By	456a
Benzo Fast Blue 4 GL	By	456a
Benzo Fast Blue 2 L	By	456a
Benzo Fast Blue R	A	451
Benzo Fast Bordeaux 6 BL	By	A170
Benzo Fast Brown 3 GL	By	A171
Benzo Fast Brown RL	By	A172
Benzo Fast Eosine BL	By	A173
Benzo Fast Gray	By	A174
Benzo Fast Gray BL	By	A175
Benzo Fast Heliotrope BL	By	A176
Benzo Fast Heliotrope 4 BL	By	A177
Benzo Fast Heliotrope 5 RH	By	A178
Benzo Fast Heliotrope 2 RL	By	A179
Benzo Fast Orange 2 RL	By	A180
Benzo Fast Orange S	By	A181
Benzo Fast Orange WS	By	340a
Benzo Fast Pink 2 BL	By	297
Benzo Fast Red 8 BL	By	332
Benzo Fast Red D	By	332
Benzo Fast Red FC	By	343
Benzo Fast Red GL	By	332
Benzo Fast Red L	By	332
Benzo Fast Rubine BL	By	A183
Benzo Fast Scarlet 4 BS	By	279
Benzo Fast Scarlet 5 BS	By	279
Benzo Fast Scarlet 8 BS	By	279
Benzo Fast Scarlet GS	By	279
Benzo Fast Violet NC	By	327
Benzo Fast Violet R	By	327a
Benzo Fast Yellow 4 GL	By	296a
Benzo Fast Yellow 5 GL	By	296
Benzo Fast Yellow RL	By	296a
Benzo Gray S	By	447
Benzo Green BB	By	A184
Benzo Green C	By	A185
Benzo Green FF	By	A186
Benzo Green FFG	By	A187
Benzo Green G	By	A188
Benzo Indigo Blue	By	452
Benzo New Blue 2 B	By	379
Benzo New Blue 5 B	By	379
Benzo New Red 4 B	By	A189
Benzo Olive	By	446
Benzo Orange R	By	340
Benzo Pure Yellow FF	By	A190
Benzo Red 10 B	By	A191
Benzo Red 12 B	By	A192
Benzo Rhoduline Red B	By	A203
Benzo Rhoduline Red 3 B	By	A204
Benzo Rubine HW	By	A193
Benzo Rubine SC	By	A194
Benzo Scarlet BC	By	A195
Benzo Sky Blue	By	426
Benzo Violet O	By	326
Benzo Violet R	By	326a
Benzoflavine O	GrE	605
Benzoform Blue B	By	A196
Benzoform Brown R	By	A197
Benzoform Orange G	A	U71
Benzoform Orange G	By	A198
Benzoform Red G	A	U72
Benzoform Red G	By	A199
Benzoform Red 2 GF	By	A200
Benzoform Scarlet B	By	A201
Benzoform Yellow R	By	A202
Benzoin Blue 5 GN	BK	410
Benzoin Brown C	BK	477
Benzopurpurine	AW	365a
Benzopurpurine	H	365
Benzopurpurine	I	365a
Benzopurpurine AM	By	365a
Benzopurpurine B	A	365
Benzopurpurine B	tM	365
Benzopurpurine 4 B	A	363
Benzopurpurine 4 B	AW	363
Benzopurpurine 4 B	By	363
Benzopurpurine 4 B	G	363
Benzopurpurine 4 B	Q	363
Benzopurpurine 4 B	tM	363
Benzopurpurine 6 B	By	364
Benzopurpurine 10 B	A	405
Benzopurpurine 10 B	AW	405
Benzopurpurine 10 B	By	405
Benzopurpurine 10 B	CG	405
Benzopurpurine 10 B	G	405
Benzopurpurine 10 B	GrE	405
Benzopurpurine 10 B	I	405
Benzopurpurine 10 B	S	405
Benzopurpurine 10 B	tM	405
Benzopurpurine 4 BM	A	363
Benzopurpurine 4 BN	BK	363
Benzopurpurine 4 BN	Q	363
Benzopurpurine 4 BP	GrE	363
Benzopurpurine 4 BX	Q	363
Benzoyl Pink	P	104
Benzyl Black B	I	A661
Benzyl Blue B	I	U651
Benzyl Bordeaux B	I	U652
Benzyl Bordeaux 17619	I	U652
Benzyl Green B	I	503
Benzyl Red	I	A662
Benzyl Violet 4 B	I	517
Benzyl Violet 6 B	I	517
Biebrich Acid Blue G	K	U308
Biebrich Acid Blue V	K	U309
Biebrich Acid Violet R	K	A392
Biebrich Patent Black	K	278
Bismarck Acid Brown	By	A205
Bismarck Brown	A	283
Bismarck Brown	(ByCo)	283
Bismarck Brown	(CDCo)	283
Bismarck Brown	H	283
Bismarck Brown	(H&M)	283
Bismarck Brown (V. M.)	C	283
Bismarck Brown EL	A	283
Bismarck Brown G	I	283
Bismarck Brown R	CV	284
Bismarck Brown R	I	284
Bismarck Brown 2 R	tM	284
Bismarck Brown 2 RV	tM	284
Bismarck Brown Y	(Sch)	283
Bismarck Brown YS	tM	283
Bismarck Brown 53	(Sch)	284
Bismarck Brown 1568	CV	283
Black (V. M.)	CJ	U494
Black (V. M.)	H	U749
Black AJ	P	700a
Black BH	AW	U553
Black CBR	P	698
Black CE	H	U749
Black C 2 N	P	698
Black DX	H	U749
Black E	B	U101
Black HB	AW	U554
Black M	H	U749

Name.	Manufacturer.	Serial No.
Brilliant Patent Blue A	K	U317
Brilliant Patent Blue A	M	545
Brilliant Phosphine	I	606b
Brilliant Phosphine 5 G	I	606b
Brilliant Pink	S	571a
Brilliant Ponceau 5 R	By	169
Brilliant Pure Yellow 6 G	By	U219
Brilliant Purpurine 4 B	A	368
Brilliant Purpurine 10 B	A	368a
Brilliant Purpurine R	A	369
Brilliant Rhoduline Red B	By	684b
Brilliant Rhoduline Violet	By	684a
Brilliant Safranine G	A	679
Brilliant Safranine R	(Sch)	684
Brilliant Scarlet (V. M.)	C	U283
Brilliant Scarlet AL	M	A424
Brilliant Scarlet NY 47	B	U109
Brilliant Scarlet R	BK	A443
Brilliant Scarlet 2 R	tM	A515
Brilliant Scarlet 3 R	(Sch)	169
Brilliant Scarlet 4 R	tM	A516
Brilliant Scarlet 4 RSP	tM	A516
Brilliant Scarlet 141113	B	U110
Brilliant Sky Blue 5 B	By	U220
Brilliant Sky Blue G	By	U221
Brilliant Sky Blue 5 G	By	U222
Brilliant Sky Blue 8 G	By	U223
Brilliant Sulphonazurine R	By	361a
Brilliant Sulphon Red B	S	182
Brilliant Sulphon Red 5 B	S	182
Brilliant Victoria Blue RB	I	559b
Brilliant Wool Blue B	By	562a
Brilliant Wool Blue FFR	By	562c
Brilliant Wool Blue G	By	562c
Brilliant Yellow	By	U224
Brilliant Yellow	Q	303b
Brilliant Yellow	tM	142
Brilliant Yellow C	(Sch)	303
Bromofluoresceic Acid A 3 G	M	587b
Bromofluoresceic Acid BA	M	587b
Bromofluoresceic Acid BL	M	587b
Bromofluoresceic Acid Crystals	M	587b
Brown	BK	U479
Brown A 1678	B	U111
Brown GC	G	U607
Brown PCC	DH	U596
Brown Y	H	283
Brown PCC	G	U607
Brown 43	S	U700
Brown 359	Lev	283b
Brown 37104	H	283
Buffalo Black AD	(Sch)	266
Buffalo Black 2 B	(Sch)	272
Buffalo Black 4 B	(Sch)	269
Buffalo Black 8 B, 10 B	(Sch)	261
Buffalo Black EA	(Sch)	268
Buffalo Black NB	(Sch)	217
Buffalo Black PY	(Sch)	220
Buffalo Black R	(Sch)	261
Buffalo Chrome Black BWN	(Sch)	275
Buffalo Cyanine R	(Sch)	257
Buffalo Cyanine 3 R	(Sch)	257
Buffalo Direct Blue G	(Sch)	410
Buffalo Direct Cardinal 7 B	(Sch)	405
Buffalo Direct Crimson B	(Sch)	313
Buffalo Direct Garnet R	(Sch)	312
Buffalo Direct Orange R	(Sch)	362
Buffalo Direct Orange Y	(Sch)	392
Buffalo Direct Red 4 B	(Sch)	363
Buffalo Direct Violet 4 R	(Sch)	375
Buffalo Direct Yellow CG	(Sch)	342
Buffalo Direct Yellow CRR	(Sch)	394
Buffalo Fast Blue B	(Sch)	189
Buffalo Fast Blue R	(Sch)	188
Buffalo Fast Crimson G	(Sch)	64
Buffalo Fast Crimson R	(Sch)	66
Buffalo Fast Fuchsine B	(Sch)	147
Buffalo Flamine B	(Sch)	94
Buffalo Flamine G	(Sch)	95
Buffalo Rubine	(Sch)	110
Butter Yellow	A	32
Cachou GI	Lev	U731
Cachou I 25	Lev	U731
Cachou OX	Lev	U731
Cachou R	Lev	U731
Cachou 2 R	Lev	U731
Cachou 192	Lev	U731
Cachou 209	Lev	U731
Cachou 761	Lev	U731
Cachou de Laval	P	703
Calcutta Black D	H	U751
Calcutta Blue 2	S	U701
Candle Blue	K	U318
Candle Violet	K	U319
Canelle AL	B	C03
Capri Blue GON	By	620
Capri Green BN	L	620a
Carbazole Wool Green	C	U284
Carbide Black	I	462f
Carbide Black E	I	462f
Carbide Black EX	I	462f
Carbide Black SX	I	462f
Carbide Fast Black GF	I	462f
Carbide Violet V	I	462g
Carbon Black (V. M.)	K	458
Carbon Black 4 B	M	272
Cardinal 3 B	H	512
Cardinal Red J	H	161
Carmine Blue A	AW	U560
Carmine special	P	U592
Carmine Blue V	K	U320
Carmine Brilliant Blue	AW	U561
Carmoisine	A	163
Carmoisine	S	163
Carmoisine B	By	163
Carmoisine 3 B	By	163a
Carmoisine 6 B	H	163a
Carmoisine R	H	163a
Carpet Red B	K	U321
Carpet Red BT	K	U321
Carpet Red R	K	U321
Carthamine 6 A	tM	573a
Carthamine B	tM	573a
Cashmere Black 3 BN	By	A215
Cashmere Black MCS	H	A733
Cashmere Black V	By	A216
Cashmere Blue TG	By	A217
Celestial Blue	WD	U541
Celestine Blue B	By	641
Cerasine Brown AN	C	U285
Cerasine Dark Red I, II	C	223a
Cerasine Orange G	C	35
Cerasine Red 56 I	C	223
Cerasine Red 56 II	C	223
Ceres Blue 4	By	U225
Ceres Brown 3	By	U226
Ceres Brown 4	By	U227
Ceres Orange 3	By	U228
Ceres Red 3	By	U229
Ceres Red 6	By	U230
Cerise DN	B	512
Cerise D IV	B	512
Cerise M	tM	512
Cerise N	C	512
Cerollavine	B	U112
Cerotine Scarlet G	CJ	34b
Chicago Blue B	A	423
Chicago Blue 4 B	A	422
Chicago Blue 6 B	A	424
Chicago Blue R	A	388
Chicago Blue 2 R	A	384
Chicago Blue 4 R	A	324
Chicago Blue RW	A	419
Chicago Blue new	A	422a
Chicago Orange G	G	15
Chicago Red 111	G	A612
China Blue	A	539
Chloramine Black EXD	S	469a
Chloramine Black FF	S	469a
Chloramine Blue 3 G	S	471
Chloramine Black N	S	469
Chloramine Blue 3 B	S	471a
Chloramine Blue HW	S	472
Chloramine Brown G	By	A218
Chloramine Dark Green B	S	470a
Chloramine Fast Yellow B	By	617

Name.	Manufacturer.	Serial No.
Chrome Leather Brown R	S	U703
Chrome Orange GR	By	U235
Chrome Patent Green N	K	219
Chrome Red 2503	K	U325
Chrome Violet	By	549
Chrome Violet	G	557
Chrome Violet Brown 9457	K	U326
Chrome Yellow	By	177
Chrome Yellow	I	177e
Chrome Yellow D	By	177
Chrome Yellow DF	By	177
Chrome Yellow G	S	177e
Chrome Yellow GG	S	177e
Chrome Yellow R	AW	177e
Chrome Yellow R	By	177
Chrome Yellow SM	K	A393
Chrome Yellow 2501	K	A393
Chromine G	K	614
Chromine RR	S	614a
Chromine Blue	AW	U562
Chromine Blue B	AW	U563
Chromine Brown R	AW	U564
Chromine Brown V	AW	U565
Chromine Fast Blue S	AW	U566
Chromine Violet 2 R	AW	U567
Chromocitronine R	DH	140a
Chromocyanine V	DH	631
Chromogene I	M	777
Chromogene Violet B	M	U430
Chromopurpurine II	DH	U597
Chromotrope 2 B	M	57
Chromotrope 6 B	M	67
Chromotrope 8 B	M	171
Chromotrope 10 B	M	114
Chromotrope DW	M	57a
Chromotrope 2 R	M	40
Chromotrope S	M	57a
Chromoxane Blue R	By	U236
Chromoxane Violet 5 B	By	U237
Chrysamine G	By	342
Chrysamine K	S	342
Chrysamine R	By	394
Chrysamine R	I	394
Chrysoberine	tM	304c
Chrysoberine R	tM	304c
Chrysoidine	(ByCo)	33
Chrysoidine	C	33
Chrysoidine	(CDCo)	33
Chrysoidine	(H&M)	33
Chrysoidine	K	33
Chrysoidine	tM	33
Chrysoidine A	B	33
Chrysoidine AR	tM	34
Chrysoidine C 2 E	P	33
Chrysoidine E	B	33
Chrysoidine 3 N	tM	33
Chrysoidine R	G	34
Chrysoidine R	tM	34
Chrysoidine R	C	69
Chrysoidine 3 R	(Sch)	34
Chrysoidine RD	CV	33
Chrysoidine RE	P	34
Chrysoidine RL	B	34
Chrysoidine RLE	B	34
Chrysoidine T base	B	34a
Chrysoidine Y	H	33
Chrysoidine Y	(Sch)	33
Chrysoidine Y	tM	33
Chrysoidine 2 Y	tM	33
Chrysoidine 46803	A	33
Chrysoidine Base	K	33
Chrysoidine crystals	(Sch)	33
Chrysolarine A	tM	U526
Chrysoline	G	586
Chrysophenine	I	304
Chrysophenine	S	304
Chrysophenine G	A	304
Chrysophenine G	AW	304
Chrysophenine G	By	304
Chrysophenine G	K	304
Chrysophenine G	tM	304
Chrysophenine GOO	L	304
Chrysophenine R	By	304a
Chrysophenine W	By	304a
Chrysophenine III	AW	304
Chrysophenine 190	K	304
Ciba Blue B	I	880
Ciba Blue 2 B	I	881
Ciba Blue 2 BD	I	881
Ciba Blue G	I	882
Ciba Blue G 2 B	I	882
Ciba Bordeaux B	I	919
Ciba Gray B	I	899
Ciba Gray G	I	899
Ciba Green G	I	891
Ciba Heliotrope B	I	897
Ciba Orange G	I	911
Ciba Pink R	I	910a
Ciba Red R	I	908
Ciba Red B	I	909
Ciba Scarlet G	I	907
Ciba Violet B	I	901
Ciba Violet 3 B	I	900
Ciba Violet R	I	901a
Ciba Yellow G	I	890
Cibanone Black BG	I	794
Cibanone Black 2 G	I	794
Cibanone Blue 3 G	I	793
Cibanone Brown V	I	868
Cibanone Green G	I	792a
Cibanone Olive B	I	792b
Cibanone Olive G	I	792b
Cibanone Orange R	I	792
Cibanone Yellow R	I	795
Cinnabar Scarlet BF	BK	299
Cinnabar Scarlet G	BK	300
Citronine GOO	L	141
Citronine GOOO	GrE	140
Citronine 2 ROOOO	GrE	140
Claret NY Z 1413	B	U118
Claret Lake BL	By	U238
Claret Red	B	U119
Claret Red	H	A757
Claret Red B	M	112a
Claret Red BO	M	112a
Claret Red SS	B	U120
Claret Red X	M	112a
Clayton Yellow	ClCo	198
Cloth Blue 1769	K	U327
Cloth Blue 1770	K	U327
Cloth Fast Black B	I	U659
Cloth Fast Blue B	I	U660
Cloth Fast Blue GTB	I	U661
Cloth Fast Blue R	I	U662
Cloth Red B	By	233
Cloth Red B	GrE	236
Cloth Red BB	K	A394
Cloth Red 2 B	WD	236
Cloth Red 3 B	By	231
Cloth Red BA	A	236
Cloth Red BC	By	223a
Cloth Red BO	GrE	236
Cloth Red G	By	224
Cloth Red G	By	234
Cloth Red GA	A	234
Cloth Red 3 GA	A	230
Cloth Red GFL	A	234
Cloth Red GL	A	234
Cloth Red O	M	236
Cloth Red 1769	K	A394
Cloth Red 2586	K	A394
Cloth Scarlet C	K	246
Cloth Scarlet R	K	252
Cloth Scarlet 2584	K	U327a
Cloth Yellow R	GrE	A458
Coccine 2 BG	A	167
Coccine 3 BG	A	167
Cocceine Orange	P	227a
Coccinine B	M	101
Cœrulein B	M	600
Cœrulein I	B	601
Cœrulein S	B	601
Cochenille Scarlet B	WD	95
Cochineal	P	81b
Cochineal Red A	B	169
Cochineal Scarlet 4 R	Sch	78

Name.	Manufacturer.	Serial No.
Columbia Black B	A	455
Columbia Black EA	A	455a
Columbia Black FF	A	436
Columbia Black FB	A	436
Columbia Black F 2 B	A	436
Columbia Black R	A	453
Columbia Black WA	A	455a
Columbia Black Green D	A	465
Columbia Blue G	A	387
Columbia Blue GM	A	387
Columbia Blue R	A	325
Columbia Bordeaux B	A	U80
Columbia Brown M	A	A12
Columbia Brown R	A	A13
Columbia Catechine 3 B	A	U81
Columbia Catechine G	A	U82
Columbia Catechine O	A	U83
Columbia Catechine R	A	U84
Columbia Fast Black D	A	U86
Columbia Fast Black FF	A	U87
Columbia Fast Black G	A	U88
Columbia Fast Black V	A	U89
Columbia Fast Blue 2 G	A	A16
Columbia Fast Blue R	A	A17
Columbia Fast Red F	A	343
Columbia Fast Scarlet 4 B	A	A18
Columbia Green	A	478
Columbia Green B	A	478
Columbia Green 3 B	A	478
Columbia Green G	A	478
Columbia Orange R	A	A14
Columbia Violet R	A	A15
Columbia Yellow	A	617
Columbo Blue 4 R	I	U663
Coomassie Black B	Lev	433
Coomassie Blue Black	Lev	217
Coomassie Navy Blue	Lev	434
Coomassie Union Blacks	Lev	461
Coomassie Wool Black D	Lev	266
Coomassie Wool Black S	Lev	244
Coomassie Wool Black R	Lev	243
Concentrated Blue BB	H	U752
Concentrated Cotton Blue B	M	539
Concentrated Cotton Blue 2	M	539
Congo	A	307
Congo Blue 2 B	By	412
Congo Blue 3 B	A	391
Congo Brown G	A	477
Congo Brown R	A	490
Congo Corinth B	A	375
Congo Corinth B	By	375
Congo Corinth G	A	312
Congo Corinth G	By	312
Congo Corinth G	S	312
Congo Fast Blue B	A	456
Congo Fast Blue R	A	451
Congo Magenta	K	A335
Congo Magenta 3616	K	A335
Congo Orange G	A	315
Congo Orange G	By	315
Congo Orange R	A	373
Congo Orange R	By	373
Congo Orange RG	By	373
Congo Red	GrE	307
Congo Red 4 B	(Sch)	307
Congo Red 4 R	By	374
Congo Rubine	A	313
Congo Rubine	By	313
Congo Rubine G	S	313
Congo Rubine 8714	CG	313
Coreine AR, AB	DH	646
Coreine 2 R	By	641
Coriofiavine G	GrE	609e
Coriofiavine GG	GrE	609e
Coriofiavine GOOO	GrE	609e
Coriofiavine R	GrE	609e
Coriphosphine OS	By	606e
Coriphosphine OX	By	606e
Corvan Black BG	B	A69
Corvan Black T	B	A70
Corvoline BT	B	U121
Cotton Black	Q	462c
Cotton Black	S	462c
Cotton Black	WD	738
Cotton Black (V. M.)	K	A396
Cotton Black A	K	A396
Cotton Black 3 B	B	A71
Cotton Black BGX	B	A72
Cotton Black BNX	B	A73
Cotton Black BT	Q	462c
Cotton Black CC	Lev	462c
Cotton Black CK	K	A396
Cotton Black CT	Lev	462c
Cotton Black E	B	463
Cotton Black GB	K	A396
Cotton Black GS	S	462c
Cotton Black PF	B	A75
Cotton Black RS	S	462c
Cotton Black RW	B	462h
Cotton Black UG	K	A396
Cotton Black V	Lev	462c
Cotton Black Y	Lev	462c
Cotton Black 4	B	A74
Cotton Blue	WD	538
Cotton Blue (V. M.)	Lev	538a
Cotton Blue B	K	U328
Cotton Blue BCB	CG	U490
Cotton Blue BCB	Q	538a
Cotton Blue BR	K	U328
Cotton Blue BSJ	GrE	538a
Cotton Blue CC	K	U328
Cotton Blue G	M	539
Cotton Blue N	B	649
Cotton Blue OOO	Q	538a
Cotton Blue R	B	649
Cotton Blue RN	B	649
Cotton Blue 5190	BK	538a
Cotton Brown (V. M.)	C	490
Cotton Brown B	K	U329
Cotton Brown B	Lev	490a
Cotton Brown CNP	B	U122
Cotton Brown CR	Q	490a
Cotton Brown FS	Lev	490a
Cotton Brown 4 G	K	U329
Cotton Brown M	S	490a
Cotton Brown O	K	U329
Cotton Brown 2 R	K	U329
Cotton Brown 3 R	Lev	490a
Cotton Brown RN	B	U123
Cotton Brown T	I	490a
Cotton Brown T	S	490a
Cotton Brown V	K	U329
Cotton Brown 100	Lev	490a
Cotton Brown 137	Lev	490a
Cotton Brown 153	Lev	490a
Cotton Corinth G	B	312
Cotton Corinth G	GrE	312
Cotton Cutch 21 A	Lev	A732
Cotton Dark Green B	K	U330
Cotton Dark Green N	K	U330
Cotton Dark Green 138	Lev	U732
Cotton Fast Red 4 BSP	B	368
Cotton Green	K	U331
Cotton Green A	Lev	U733
Cotton Green 88 A	Lev	U733
Cotton Green 105 A	Lev	U733
Cotton Green B	Lev	U733
Cotton Green D	S	A714
Cotton Green 2 G	L	U516
Cotton Marine Blue	K	U332
Cotton Milling Black	B	U124
Cotton Olive	Lev	U734
Cotton Orange	K	U333
Cotton Orange	Q	210c
Cotton Orange	S	34d
Cotton Orange (V.M.)	Lev	210a
Cotton Orange FB	K	U333
Cotton Orange G	B	192
Cotton Orange G	S	192
Cotton Orange GK	K	U333
Cotton Orange R	B	210
Cotton Orange RR	K	U333
Cotton Orange R 2 O	K	U333
Cotton Orange 16737	I	34c
Cotton Orange Brown (V.M.)	Lev	210b
Cotton Pink B	B	U125

Name.	Manufacturer.	Serial No.
Cotton Pure Blue B	A	U1
Cotton Purple 5 BN	B	366
Cotton Red	B	363
Cotton Red	tM	307
Cotton Red A	C	307a
Cotton Red 65 A	Lev	307a
Cotton Red 201 A	Lev	307a
Cotton Red B	S	365
Cotton Red 4 B	B	363
Cotton Red 4 B	GrE	307
Cotton Red 8 BN	CG	307a
Cotton Rubine	B	313
Cotton Ruby	Lev	313a
Cotton Scarlet	B	227
Cotton Scarlet	K	U334
Cotton Scarlet	Q	227b
Cotton Scarlet NP	B	227
Cotton Scarlet NPX	B	227
Cotton Violet 43 A	Lev	U735
Cotton Violet 2 B	Q	U796
Cotton Violet 5 B	Q	U797
Cotton Violet R	R	U798
Cotton Violet X	Lev	U735
Cotton Yellow	Q	199b
Cotton Yellow CH	I	296b
Cotton Yellow GI	B	296
Cotton Yellow GX	B	296
Cotton Yellow R	B	199
Cresol Black A	GrE	U510
Cresol Black BB	GrE	U510
Cresol Black b B	GrE	U510
Cresol Black 6 B	GrE	U510
Cresol Black 3 GOO	GrE	U510
Cresol Black K 5 B	GrE	U510
Cresol Black KV	GrE	U510
Cresol Black NDNOOOO	GrE	U510
Cresol Black X 6 B	GrE	U510
Cresol Black 4286	GrE	U510
Cresotine Yellow G	GrE	351
Cresotine Yellow G	M	351
Cresotine Yellow GOO	GrE	351
Cresotine Yellow R	GrE	395
Cresyl Blue BBS	L	621
Cresyl Fast Violet 2 B	L	U517
Crimson BBT	By	163a
Crimson Benine G	AW	U569
Croceine AZ	C	225
Croceine B	Sch	226
Croceine 3 B	Sch	235
Croceine Orange	BK	37
Croceine Orange	(CDCo)	37
Croceine Orange G	By	37
Croceine Orange G	K	37
Croceine Orange G	M	37
Croceine Orange R	(Sch)	70
Croceine Orange X	C	37
Croceine Orange Y	(Sch)	37
Croceine Scarlet (V.M)	K	169a
Croceine Scarlet 3 B	By	249
Croceine Scarlet 7 B	By	255
Croceine Scarlet 10 B	By	249a
Croceine Scarlet 8 BL	K	255
Croceine Scarlet 2 BX	By	167
Croceine Scarlet 3 BX	By	167
Croceine Scarlet MO	WD	A527
Croceine Scarlet MOO	(Sch)	227
Croceine Scarlet MOO	WD	A528
Croceine Scarlet O	K	251
Cross Dye Black BF	H	720H
Cross Dye Black F	H	720H
Cross Dye Black FG	H	720H
Cross Dye Black JNS	H	720H
Cross Dye Black LCV	H	720H
Cross Dye Black M	H	720H
Cross Dye Black RX	H	720H
Cross Dye Black X	H	720H
Cross Dye Black (blue)	H	720H
Cross Dye Blue FR	H	S174
Cross Dye Brown 2 D	H	S175
Cross Dye Brown 4 R	H	S176
Cross Dye Drab N	H	S177
Cross Dye Green G	H	S181
Cross Dye Yellow D	H	S178
Cross Dye Yellow R	H	S179
Cross Dye Yellow Y	H	S180
Crumpsall Direct Fast Brown B	Lev	444
Crumpsall Direct Fast Brown O	Lev	445
Crumpsall Direct Fast Red R	Lev	341
Crumpsall Yellow	Lev	178
Crystal Orange	B	U126
Crystal Orange 2 G	CG	38
Crystal Orange 2 G	(Sch)	38
Crystal Orange 2 G	WD	38
Crystal Ponceau	B	113
Crystal Ponceau 6 R	A	113
Crystal Ponceau 6 R	BK	113
Crystal Scarlet	WD	U543
Crystal Scarlet 6 R	C	U286
Crystal Violet	AW	516
Crystal Violet	B	516
Crystal Violet	C	516
Crystal Violet	S	516
Crystal Violet	tM	516
Crystal Violet 6 B	A	516
Crystal Violet CV	B	516
Crystal Violet 484	I	516
Cumidine Scarlet	(Sch)	83
Cupranil Brown R	I	A689
Cupranil Brown	I	A687
Cupranil Brown G	I	A688
Cupranil Brown 12366	I	A690
Cupranil Brown 15596	I	A690
Cupranil Brown 15903	I	A690
Curcumeine	A	140
Curcumeine	BK	140
Curcumeine GG	BK	140
Curcumeine S	A	140
Curcumine	tM	142
Curcumine L	G	142
Curcumine 8000	L	9
Curcuphenine	ClCo	16
Cutch Brown	AW	A540
Cutch Brown D	M	A426
Cutch Brown R	S	A715
Cutch Brown 11759	I	A691
Cyanthracene Blue 3 B	CV	U727
Cyanthracene Blue 2 BL	CV	U728
Cyanthracene Yellow S	CV	U729
Cyananthrol G	B	860
Cyananthrol R	B	859
Cyananthrol RB	B	859
Cyananthrol RXO	B	859
Cyanazurine	DH	630
Cyanine B	A	544
Cyanine B	M	544
Cyanine BF	A	544
Cyanine Blue	CV	544a
Cyanine Blue	tM	U527
Cyanogen Blue 13623	I	U664
Cyanol (V. M.)	C	546
Cyanol Green (V. M.)	C	566b
Cyanol Fast Green (V. M.)	C	566c
Cyanosine B	I	598
Cyanosine spirit soluble	M	594
Cyprus Green B	A	A19
Dark Navy Blue 2035	Lev	537a
Dark Purple (printing paste)	Lev	U736
Deep Black D	tM	U528
Deep Fat Black Color	A	U2
Delphine Blue B	S	622
Deltapurpurine	I	366
Deltapurpurine 3 B	AW	366a
Deltapurpurine 5 B	A	366
Deltapurpurine 5 B	AW	366
Deltapurpurine 5 B	By	366
Deltapurpurine 5 B	S	366
Develop Black	WD	333d
Develop Black NZ	Q	333d
Developed Black B	AW	U570
Developed Black N	AW	U571
Developed Black R	AW	U572
Developed Black W	AW	U573
Developed Blue GG	AW	U574
Developed Brown M	AW	U575
Developed Green F	AW	U576
Diamine Aldehyde Blue	C	A338

Name.	Manufacturer.	Serial No.
Diaso Rubine B	By	A256
Diaso Sky Blue 3 GL	By	A258
Diaso Sky Blue B	By	A257
Diazogene Black	AW	A541
Diazogene Black AB	AW	A542
Diazogene Black AD	AW	A543
Diazogene Black N	AW	A545
Diazogene Blue R	AW	A546
Diazogene Blue 2 R	K	A397
Diazogene Blue RD	AW	A547
Diazogene Blue 4585	K	A397
Diazogene Garnet BB	AW	A548
Diazogene Red 8 B	AW	A549
Diazomine Red L	CV	U730
Diazophenyl Black L	G	A613
Diazophenyl Blue BC	G	A614
Diazurine B	By	406
Dichroine Brown	Q	U799
Dicyanine	M	U431
Dimethyl-indigo	M	888
Dioxine	L	3
Diphene Blue B	A	695a
Diphenyl Black	M	922
Diphenyl Black L	G	A615
Diphenyl Black RC	G	A616
Diphenyl Blue 3 BC	G	A617
Diphenyl Blue BEC	G	A618
Diphenyl Blue BTC	G	A620
Diphenyl Blue BBEC	G	A619
Diphenyl Blue 2 R	G	A621
Diphenyl Blue Black	G	334
Diphenyl Brown BBNC	G	348
Diphenyl Brown BGN	G	348
Diphenyl Brown BVCN	G	348
Diphenyl Brown 3 GN	G	393
Diphenyl Brown GS	G	348
Diphenyl Brown RN	G	347
Diphenyl Catechine G	G	206
Diphenyl Chlorine Yellow FF	G	18a
Diphenyl Chlorine Yellow G	G	18a
Diphenyl Chlorine Yellow 220	G	18a
Diphenyl Chrysoine GC	G	14
Diphenyl Chrysoine 3 GN	G	14
Diphenyl Chrysoine GOO	G	14
Diphenyl Chrysoine RR	G	205
Diphenyl Citronine G	G	12
Diphenyl Dark Green BC	G	A633
Diphenyl Deep Black GC	G	A622
Diphenyl Deep Black GN	G	A623
Diphenyl Deep Black GWC	G	A624
Diphenyl Deep Black VN	G	A625
Diphenyl Deep Black VP	G	A626
Diphenyl Fast Black	G	295
Diphenyl Fast Brown GNC	G	207
Diphenyl Fast Gray BC	G	A627
Diphenyl Fast Red	G	343
Diphenyl Fast Violet BC	G	A628
Diphenyl Fast Yellow G	G	18
Diphenyl Green BC	G	A629
Diphenyl Green G	G	467
Diphenyl Green 3 G	G	468
Diphenyl Green 3 GC	G	A629
Diphenyl Green 3 GF	G	A629
Diphenyl Green KGW	G	A629
Diphenyl Orange GG	G	13a
Diphenyl Orange RR	G	13
Diphenyl Red 8 B	G	358
Diphenyl Red 184	G	358
Diphenyl Red 340	G	358
Diphenyl Scarlet 3 B	G	A634
Diphenyl Violet BVC	G	A635
Diphenylamine Blue	DH	520
Disulphine Blue 47073 DS	H	U753
Direct Black (V. M.)	H	442a
Direct Black ABC	AW	A550
Direct Black C	AW	A551
Direct Black D	K	U335
Direct Black D	Q	442a
Direct Black DB	K	U335
Direct Black E	I	A692
Direct Black FBS	By	A259
Direct Black FBS	CG	333a
Direct Black G	K	U335
Direct Black 3 G	S	442a
Direct Black 3 R	K	U335
Direct Black RC	By	A260
Direct Black RO	S	442a
Direct Black T	K	U335
Direct Black V	S	442
Direct Black VT	By	A261
Direct Black WC	K	U335
Direct Black 3899	K	U335
Direct Black 3919	K	U335
Direct Black 7565	CV	442a
Direct Black 8535	K	U335
Direct Black 14714	I	A693
Direct Black 33336	S	442a
Direct Blue	H	428a
Direct Blue (V. M.)	K	U336
Direct Blue A	K	U336
Direct Blue AB	Q	428a
Direct Blue B	I	428
Direct Blue 3 B	I	428a
Direct Blue 5 B	BK	379b
Direct Blue 5 B	Q	428a
Direct Blue 7 B	K	U336
Direct Blue 12 B	K	U336
Direct Blue BK	K	U336
Direct Blue BX	I	428a
Direct Blue C	AW	428a
Direct Blue FF	K	U336
Direct Blue G	AW	428a
Direct Blue 3 G	S	428a
Direct Blue GN	CG	428a
Direct Blue GRC	K	U336
Direct Blue N 2 B	K	U336
Direct Blue R	I	397
Direct Blue R	K	U336
Direct Blue 5 R	K	U336
Direct Blue RW	I	428a
Direct Blue WBB	(WB)	337
Direct Blue X 2 B	K	U336
Direct Blue 30	I	428a
Direct Blue 7079	CV	428a
Direct Blue 13108	I	428a
Direct Blue 13503	I	428a
Direct Blue 51096	H	428a
Direct Blue Black B	By	455
Direct Blue Black 313	Lev	455b
Direct Brilliant Blue 8 B	I	428b
Direct Brown	L	A502
Direct Brown (V. M.)	K	U337
Direct Brown B	K	U337
Direct Brown G	L	A503
Direct Brown 3 GNC	G	A636
Direct Brown H	K	U337
Direct Brown HB	L	A504
Direct Brown JJB	I	486
Direct Brown JP	I	486
Direct Brown M	I	344
Direct Brown N	L	A505
Direct Brown RW	Q	344a
Direct Brown TB	K	U337
Direct Brown 102	Q	344a
Direct Catechine G	S	A717
Direct Catechine 30	S	A718
Direct Chrome Black 14722	I	A694
Direct Chrome Brown	AW	A552
Direct Cotton Blue GS	K	U338
Direct Cotton Blue RDB	K	U338
Direct Cotton Gray	K	U340
Direct Cotton Green 2 B	K	U339
Direct Cutch GG	I	A695
Direct Dark Brown M	L	344
Direct Dark Green	K	U341
Direct Dark Green S	I	478b
Direct Dark Violet BE	K	U342
Direct Deep Black E	A	A20
Direct Deep Black E	By	462a
Direct Deep Black EW	By	462
Direct Deep Black NTS	K	U343
Direct Deep Black RW	By	463
Direct Fast Black B	I	A696
Direct Fast Blue	AW	A553
Direct Fast Blue FFB	K	U344
Direct Fast Brown C	K	U345

Name.	Manufacturer.	Serial No.
Direct Fast Brown GG	By	A262
Direct Fast Brown GB	K	U345
Direct Fast Gray RN	K	U346
Direct Fast Orange 16710	I	392c
Direct Fast Red	Q	343a
Direct Fast Red F	I	343
Direct Fast Red 17727	I	343a
Direct Fast Red 25420	I	343a
Direct Fast Scarlet (V. M.)	I	A698
Direct Fast Scarlet 4 BS	S	U704
Direct Fast Scarlet 4 BS	K	U347
Direct Fast Scarlet 8 BS	K	U347
Direct Fast Violet 3654	K	U348
Direct Fast Yellow	tM	617c
Direct Fast Yellow OO	GrE	617c
Direct Fast Yellow R	GrE	617c
Direct Gray B	I	398
Direct Gray B	P	681
Direct Gray J	P	681
Direct Gray R	I	354
Direct Green	I	478a
Direct Green B	CG	A444
Direct Green B	I	478a
Direct Green B	Q	478a
Direct Green B	S	478a
Direct Green BC	Q	478a
Direct Green C	CG	A445
Direct Green G	CG	A446
Direct Green 3 GG	I	478a
Direct Green KGD	CG	A447
Direct Green U	Q	478a
Direct Green Y	I	478a
Direct Green 10865	CG	A448
Direct Green 9753	S	478a
Direct Green 34267	S	478a
Direct Indigo Blue A	I	439
Direct Indigo Blue BK	I	440
Direct Indigo Blue BN	I	353
Direct Indone Blue R	S	443
Direct Navy Blue	K	U349
Direct Navy Blue B	K	U349
Direct Orange BR	S	392b
Direct Orange G	I	392
Direct Orange G	S	392b
Direct Orange H	G	11b
Direct Orange R	I	362
Direct Orange R	K	11a
Direct Orange 6 R	L	A506
Direct Orange 1901	BK	392b
Direct Orange 6693	I	392b
Direct Pure Blue	CG	U491
Direct Purple N	K	U350
Direct Red	I	307b
Direct Red	S	307b
Direct Red B	DH	307b
Direct Red 3 B	S	307b
Direct Red N	K	U351
Direct Red 215	I	307b
Direct Red 1725	I	307b
Direct Safranine B	I	A699
Direct Scarlet AB	Q	U800
Direct Scarlet B	S	U705
Direct Scarlet 3 B	S	U706
Direct Scarlet FB	BK	U480
Direct Sky Blue	I	A700
Direct Sky Blue B	(WB)	426
Direct Sky Blue FF	S	A719
Direct Sky Blue 22	S	A720
Direct Sky Blue 13108	I	A700
Direct Violet B	H	413a
Direct Violet BB	I	413
Direct Violet R	CG	A449
Direct Violet R	Q	352
Direct Violet RR	S	413a
Direct Violet 3653	K	A398
Direct Violet 4561	K	A398
Direct Violet 11508	CG	A450
Direct Violet 12932	I	413a
Direct Violet 18510	I	413a
Direct Yellow (V. M.)	K	9b
Direct Yellow B	A	9g
Direct Yellow BK	K	9b

Name.	Manufacturer.	Serial No.
Direct Yellow C	S	9e
Direct Yellow CA	H	9h
Direct Yellow CR	I	30:b
Direct Yellow EGOO	GrE	A459
Direct Yellow F	(Sch)	9
Direct Yellow G	K	9b
Direct Yellow G	L	30:b
Direct Yellow 2 G	K	9b
Direct Yellow 6 G	S	9f
Direct Yellow GBE	K	9b
Direct Yellow GOO	GrE	A460
Direct Yellow GR	K	9b
Direct Yellow MC	G	9d
Direct Yellow PC	Q	9h
Direct Yellow PI	K	9b
Direct Yellow R	By	9
Direct Yellow R	GrE	A461
Direct Yellow 2 RF	(Sch)	9
Direct Yellow TO	I	617b
Direct Yellow V	AW	9c
Direct Yellow WH	(WB)	342
Direct Yellow Z	Q	9h
Direct Yellow 242	ClCo	9
Direct Yellow 19305	I	304b
Domingo Alizarin Black EF	L	A507
Domingo Alizarin Black G	L	A508
Domingo Alizarin Blue R	L	A509
Domingo Alizarin Bordeaux	L	A509a
Domingo Black 46216	L	A510
Domingo Blue Black B	L	216
Domingo Violet A	L	61
Double Brilliant Scarlet G	tM	174
Double Ponceau R	By	108
Double Ponceau 2 R	By	A263
Double Ponceau 4 R	By	A264
Drazaline Alizarin	AW	A554
Drazaline Black BH	AW	A555
Drazaline Blue 10 B	AW	A556
Drazaline Blue 2 BFL	AW	A557
Drazaline Blue CV	AW	A558
Drazaline Blue F	AW	A559
Drazaline Blue FF	K	U352
Drazaline Blue FS	AW	A560
Drazaline Blue RFL	AW	A562
Drazaline Blue VVV	AW	A563
Drazaline Blue Black HWF	AW	A561
Drazaline Bordeaux 6 B	AW	A564
Drazaline Brilliant Yellow	AW	A565
Drazaline Brown C 3 B	AW	A566
Drazaline Brown FL	AW	A567
Drazaline Brown G	AW	A568
Drazaline Brown 3 GL	AW	A569
Drazaline Brown 4 J	AW	A570
Drazaline Brown R	AW	A571
Drazaline Chlorine Yellow G	AW	A572
Drazaline Diamond Violet BB	AW	A573
Drazaline Fast Blue 4 GFL	AW	A574
Drazaline Fast Gray	AW	A575
Drazaline Fast Red	AW	A576
Drazaline Fast Red F	AW	A577
Drazaline Fast Yellow B	AW	A578
Drazaline Garnet BB	AW	A579
Drazaline Garnet FL	AW	A580
Drazaline Green BX	AW	A581
Drazaline Indigo Blue	AW	A582
Drazaline New Red	AW	A583
Drazaline New Red 10 B	AW	A584
Drazaline Orange FL	AW	A585
Drazaline Orange G	AW	A586
Drazaline Orange R	AW	A587
Drazaline Red F	AW	A589
Drazaline Red FL	AW	A590
Drazaline Red FV	AW	A591
Drazaline Scarlet B	AW	A592
Drazaline Sky Blue FF	AW	A593
Drazaline Violet D	AW	A594
Drazaline Violet NFL	AW	A595
Drazaline Violet VB	AW	A596
Drazaline Yellow R	AW	A597
Drazaline Yellow R	M	U433
Drazaline Yellow S	AW	A599
Drazaline Yellow T	AW	A598

Name.	Manufacturer.	Serial No.
Dutch Yellow	FA	103
Eboli Blue B	L	389
Eboli Green	L	466
Eclipse Black C	G	720G
Eclipse Brown B	G	S141
Eclipse Brown GC	G	S142
Eclipse Brown R	G	S143
Eclipse Fast Brown BC	G	S144
Eclipse Fast Brown GC	G	S145
Eclipse Fast Brown 3 GC	G	S146
Eclipse Fast Brown 4 R	G	S147
Eclipse Fast Dark Brown BC	G	S148
Eclipse Fast Red Brown	G	S149
Eclipse Fast Red Brown E	G	S150
Eclipse Phosphine GGC	G	S151
Eclipse Phosphine RRC	G	S152
Eclipse Yellow G	G	S153
Eclipse Yellow 3 G	G	S154
Emin Red	A	123
Eosamine B	A	100
Eosamine G	A	100
Eosine	(H&M)	587
Eosine	K	587
Eosine	(Sch)	587
Eosine (V.M.)	C	587a
Eosine (V.M.)	CJ	587
Eosine A	B	587a
Eosine A	By	587a
Eosine AG	B	587a
Eosine AG	M	587
Eosine A 3 G	M	587
Eosine BB	M	587
Eosine BNL	B	590
Eosine CA	B	587a
Eosine SP	B	589
Eosine W	B	587a
Eosine (yellowish) 701	G	587
Erganе Yellow G	B	U130
Erganе Yellow R	B	U131
Erganе Yellow W	B	U132
Erganone Blue B	B	U133
Erganone Blue G	B	U134
Erganone Gray B	B	U135
Erganone Violet R	B	U136
Erica B	A	121
Erica BB	S	121
Erica BN	A	121
Erica G	A	122
Erica G	S	122a
Erica GN	A	122
Erica 2 GN	A	117
Erie Direct Black G	(Sch)	462
Erie Direct Black R	(Sch)	463
Erie Direct Brown GB	(Sch)	477a
Erie Direct Brown GR	(Sch)	477
Erie Direct Brown 3 RB	(Sch)	344
Erie Direct Brown RF, 2 RF	(Sch)	488
Erie Direct Green ET	(Sch)	464
Erie Direct Green MT	(Sch)	474
Erie Direct Green WT	(Sch)	464
Erie Orange 2 R	(Sch)	311
Erio Fast Blue SWR	G	A637
Erio Green N	G	564
Erio Violet BC	G	U610
Erio Violet RLC	G	U611
Erioazurine BC	G	A638
Eriocarmine 2 BC	G	A639
Eriochromal Brown EB	G	U612
Eriochromal Gray 5 G	G	U613
Eriochrome Azurol BC	G	551
Eriochrome Black A	G	184
Eriochrome Black T	G	183
Eriochrome Blue Black BC	G	180
Eriochrome Blue Black G	G	180a
Eriochrome Brown RC	G	A640
Eriochrome Brown SDE	G	A641
Eriochrome Brown V	G	A642
Eriochrome Cyanine RC	G	553
Eriochrome Geranol R	G	U614
Eriochrome Green H	G	U615
Eriochrome Green L	G	U616
Eriochrome Green M	G	U617
Eriochrome Green O	G	U618
Eriochrome Olive G	G	U619
Eriochrome Phosphine R	G	133
Eriochrome Red AW	G	29
Eriochrome Red B	G	29
Eriochrome Verdon S	G	260
Eriochrome Violet B	G	A643
Eriochrome Violet 2 BL	G	A644
Eriochrome Yellow 3 G	G	A646
Eriochrome Yellow 2 G	G	A645
Eriochrome Yellow GR	G	A647
Eriochrome Yellow S	G	A648
Eriocyanine AC	G	531
Eriocyanine R	G	531
Eriofloxine 6 B	G	U620
Eriofloxine 2 G	G	U621
Erioglaucine	G	506
Erioglaucine AP	G	506
Erioglaucine EP	G	506
Erioglaucine X	G	506
Erioglaucine 49141	H	506
Eriorubine B	G	A649
Erioviridine B	G	503
Erweco Alizarin Acid Blue R	RWCo	857
Erweco Alizarin Acid Red SB	RWCo	781
Erythrine 7 B	B	255
Erythrine C	C	A374
Erythrine P	B	228
Erythrine RR	B	249
Erythrosine	M	592
Erythrosine A	M	592
Erythrosine B	M	592
Erythrosine G	B	591
Ethyl Acid Blue RR	B	63
Ethyl Acid Violet S 4 BXX	B	61
Ethyl Blue B	B	A76
Ethyl Purple	B	518
Ethyl Violet	B	518
Ethyl Violet	M	518
Ethyl Violet 8682	I	518
Euchrysine RR	B	608
Euchrysine GG	B	608
Euchrysine GNX	B	608
Euchrysine GRNT	B	608
Euchrysine NX	B	608
Euchrysine RT	B	608
Euchrysine RRD	B	608
Euchrysine 3 RX	B	603
Excelsior Black	AW	A600
Excelsior Lake Scarlet (V. M.)	C	A375
Excelsior Scarlet G	M	U434
Excelsior Scarlet 3 R	M	U435
Export Blue 1504	B	U137
Fast Acid Blue B	By	562
Fast Acid Blue 3 B	Q	562d
Fast Acid Blue R	M	584
Fast Acid Blue RH	H	584a
Fast Acid Fuchsine B	....	41
Fast Acid Green RH	H	503a
Fast Acid Magenta G	M	581a
Fast Acid Marine Blue HBBX	B	U138
Fast Acid Navy Blue GRI	I	U665
Fast Acid Phloxine A	M	581
Fast Acid Red A	M	581b
Fast Acid Red EB	L	67a
Fast Acid Red EGG	L	67a
Fast Acid Red RH	H	67a
Fast Acid Violet	AW	580a
Fast Acid Violet	C	580a
Fast Acid Violet A 2 R	M	582
Fast Acid Violet B	M	580
Fast Acid Violet 3 B	K	U353
Fast Acid Violet 10 B	By	528
Fast Acid Violet ERR	B	U139
Fast Acid Violet R	K	U353
Fast Acid Violet R	M	580a
Fast Acid Violet RBE	M	580a
Fast Acid Violet RGE	M	580a
Fast Acid Violet RX	H	580a
Fast Acid Violet 416	K	U353
Fast Acid Yellow (V. M.)	C	23a
Fast Acid Yellow RBE	M	U436
Fast Acid Yellow RH	H	137a
Fast Black	G	U622

Name.	Manu-facturer.	Serial No.	Name.	Manu-facturer.	Serial No.
Galloflavine W	B	772	Helindone Brown CR	M	904a
Gallophenin P	By	658a	Helindone Brown G	M	904
Geranine G	By	118	Helindone Brown 3 GN	M	836
Geranium B	S	512	Helindone Brown 2 R	M	902
Gentiana Violet B	A	U4	Helindone Brown 5 R	M	903
Gentianine A	G	659b	Helindone Fast Scarlet C	M	907
Gloria Black N	By	U245	Helindone Fast Scarlet R	M	915
Glycine Corinth	Ki	310	Helindone Fast Scarlet RC	M	915
Glycine Red	Ki	309	Helindone Gray 2 B, BR	M	921
Golden Brown	A	283	Helindone Green G	M	892
Golden Orange	By	145	Helindone Printing Black 2 RG	M	921a
Gray NO	S	698a	Helindone Orange D	M	914
Gray Blue 0095	K	U357	Helindone Orange GRN	M	835
Green A	H	495a	Helindone Orange R	M	913
Green BX	AW	U587	Helindone Pink AN	M	910
Green G	K	U354	Helindone Pink BN	M	910
Green HD	H	495a	Helindone Red B	M	917
Green PLX	B	4	Helindone Red 3 B	M	918
Green VGW	B	U144	Helindone Scarlet S	M	916
Green 21	S	U707	Helindone Violet B	M	920
Green 241	Q	U803	Helindone Violet BB	M	920
Green 15825	H	495a	Helindone Violet D	M	898
Green Crystals DIIa	K	U356	Helindone Violet R	M	920
Green Crystals E	tM	495	Helindone Yellow CG	M	810a
Green Crystals F	H	495	Helindone Yellow 3 GN	M	810
Green Crystals M	tM	495	Helindone Yellow RN	M	810a
Green Crystals X	K	U356	Heligoland Blue RW	CG	A453
Green Crystals YD	H	495	Helio Bordeaux BL	By	A266
Green Crystals IIa	K	U356	Helio Fast Blue BL	By	A267
Green residue	K	U355	Helio Fast Red RL	By	73
Green residue D	K	U355	Helio Fast Red TRL	By	73
Grela Red R	GrE	U507	Helio Fast Ruberine RL	By	A268
Guernsey Blue O	M	539	Helio Fast Violet AL	By	A269
Guinea Black 3 BL	A	U5	Helio Fast Yellow 8 GL	By	A270
Guinea Bordeaux B	A	U6	Helio Red RM	By	A271
Guinea Bordeaux 6 B	A	U7	Helio Red RMT	By	A272
Guinea Bordeaux BL	A	U8	Heliotrope 2 B	A	321
Guinea Brown R	A	U9	Heliotrope BB	By	321
Guinea Brown 2 R	A	U10	Hessian Brown BBN	L	489
Guinea Carmine B	A	A22	Hessian Fast Red F	L	343
Guinea Carmine D	A	A23	Hessian Purple N	By	301
Guinea Cyanine LB	A	U11	Hessian Yellow	L	305
Guinea Cyanine LG	A	U12	Homophosphine OO	L	609
Guinea Cyanine LR	A	U13	Hydrazine Yellow OO	GrE	A462
Guinea Fast Green B	A	U14	Hydrazine Yellow SO	GrE	A463
Guinea Fast Green 3 B	A	U15	Hydrazol Black	AW	A603
Guinea Fast Green 2 G	A	U16	Hydrazol Black R	AW	A604
Guinea Fast Red BL	A	U17	Hydrazol Chrome Black CB	AW	A605
Guinea Fast Red 4 BL	A	U18	Hydrazol Chrome Black DB	AW	A606
Guinea Fast Red 2 R	A	U19	Hydron Blue (V. M.)	C	748
Guinea Fast Violet AL	A	U20	Hydron Brown (V. M.)	C	748a
Guinea Fast Violet 10 B	A	U21	Hydron Olive G	C	748b
Guinea Green B	A	502	Hydron Violet	C	748c
Guinea Green G	A	502	Hydron Yellow G	C	748d
Guinea Green 2 G	A	505	Hylidine Ponceau 2 R	G	U627
Guinea Red 4 R	A	A24	Hylidine Ponceau 2 R	tM	U532
Guinea Violet 4 B	A	530c	Immedial Black (V. M.)	C	724
Guinea Violet 6 B	A	530c	Immedial Blue (V. M.)	C	724a
Guinea Violet S 4 B	A	530	Immedial Bordeaux G	C	739
Half Wool Blue 3 R	By	U246	Immedial Brilliant Black B	C	720C
Half Wool Green 63816	L	U519	Immedial Brilliant Carbon F, FG	C	720C
Half Wool Green 63816 N 5	L	U520	Immedial Brilliant Green G	C	869
Hansa Green G	M	U437	Immedial Brown (V. M.)	C	725
Hansa Rubine G	M	U438	Immedial Carbon (V. M.)	C	720
Hansa Rubine O	M	U439	Immedial Cutch	C	870
Hansa Yellow G	M	U440	Immedial Cutch (V. M.)	C	871
Hansa Yellow 5 G	M	U441	Immedial Dark Brown (V. M.)	C	725
Hansa Yellow R	M	U442	Immedial Dark Green B	C	873
Hat Black (V. M.)	C	A376	Immedial Deep Green G	C	874
Hat Black A	GrE	U508	Immedial Direct Blue (V. M.)	C	875
Hat Black 4 AN	GrE	U508	Immedial Green (V. M.)	C	746
Hat Black B	A	U22	Immedial Green Blue	C	746
Hat Black L	GrE	U508	Immedial Indogene (V. M.)	C	876
Hat Black S	GrE	U508	Immedial Indone (V. M.)	C	733
Havana Brown S	C	U287	Immedial Indone Violet B	C	733a
Helianthine G	G	141	Immedial Khaki	C	877
Helianthine GFF	G	141	Immedial Maroon B	C	739
Helianthine R	G	141	Immedial New Blue G	C	878
Helindone Blue 3 GN	M	896	Immedial Olive (V. M.)	C	879
Helindone Blue 3 R	M	896a	Immedial Orange C	C	711
Helindone Brown	M	904a	Immedial Purple C	C	880
Helindone Brown AN	M	873	Immedial Sky Blue	C	728

Name.	Manufacturer.	Serial No.
Immedial Violet C	C	S81
Immedial Yellow (V. M.)	C	710
Immedial Yellow Olive (V. M.)	C	S82
Imperial Green GI	By	A273
Imperial Scarlet 3 B	By	247b
Imperial Yellow R	By	7b
Indalizarin R	DH	633
Indalizarin Green	DH	634
Indamine 3 R	CG	704
Indamine 6 R	CG	705
Indamine Blue R, B	M	696
Indanthrene NN	B	873a
Indanthrene Black B	B	768a
Indanthrene Black BB	B	768a
Indanthrene Blue 3 G	B	840
Indanthrene Blue GC	B	843
Indanthrene Blue GCD	B	842
Indanthrene Blue GGS	B	841
Indanthrene Blue GGSL	B	841
Indanthrene Blue 3 GP	B	840
Indanthrene Blue R	B	837
Indanthrene Blue RS	B	838
Indanthrene Blue WB	B	850
Indanthrene Blue WR	B	850a
Indanthrene Blue Green B	B	765a
Indanthrene Brown	B	867
Indanthrene Brown B	B	867
Indanthrene Claret B	B	828
Indanthrene Claret B extra	B	827
Indanthrene Copper R	B	813
Indanthrene Dark Blue BO	B	763
Indanthrene Dark Blue BT	B	846
Indanthrene Fast Blue RR	B	837a
Indanthrene Gold Orange G	B	760
Indanthrene Gold Orange R	B	761
Indanthrene Gold Orange RS	B	761
Indanthrene Gold Orange 2 RT	B	761
Indanthrene Gray BP	B	848
Indanthrene Green B	B	765
Indanthrene Maroon R	B	845
Indanthrene Olive G	B	791
Indanthrene Orange RT	B	812
Indanthrene Pink B	B	873b
Indanthrene Red BN	B	831
Indanthrene Red G	B	826
Indanthrene Red R	B	830
Indanthrene Red Brown R	B	873c
Indanthrene Red Violet RRN	B	873d
Indanthrene Scarlet GS	B	762
Indanthrene Violet B	B	768
Indanthrene Violet R	B	766
Indanthrene Violet RN	B	832
IndanthreneViolet RR	B	767
Indanthrene Violet RT	B	764
Indanthrene Violet Yellow G	B	849a
Indanthrene Violet Yellow P	B	849a
Indanthrene Yellow G	B	849
Indanthrene Yellow GP	B	849
Indazine M	C	689
Indazurine B	I	414
Indazurine BB	I	429
Indazurine GM	I	427
Indazurine 5 GM	I	430
Indazurine RM	I	396
Indazurine TS	I	399
India Rose 17285	I	U667
Indian Red	G	U628
Indian Yellow (V. M.)	C	141b
Indian Yellow G	By	141
Indian Yellow GN	By	141
Indian Yellow R	By	140
Indigene R	AW	697
Indigene Blue BB	I	A701
Indigene Blue R	I	A702
Indigo paste	I	874
Indigo powder	Q	874
Indigo solution	M	874
Indigo FBP	By	874
Indigo G	B	888
Indigo 7 G	By	874
Indigo KG	K	883
Indigo MLB	M	874
Indigo MLB 2 B	M	880
Indigo MLB 6 B	M	883
Indigo MLBR	M	879
Indigo NC	By	874
Indigo RB	B	880
Indigo Blue N	C	874
Indigo Blue 275	CJ	874
Indigo Carmine Blue BG	A	U23
Indigo Extract A	B	877
Indigo Extract AN 4	B	877
Indigo Salt T	K	875
Indigo (synthetic)	B	874
Indigo (synthetic) MLB	M	874
Indigo Yellow 3 G	I	889
Indigo White Base	B	876
Indigotin	I	877
Indigotin	WD	877
Indigotin I	B	877
Indigotin P	B	878
Indigotin 500	A	877
Indo Carbon	C	748
Indo Violet BF	A	U24
Indochromine RR	S	667
Indochromine T	S	667
Indochromine Black EXD	S	667a
Indochromogen S	S	666
Indocyanine B	A	705a
Indocyanine B	G	699c
Indocyanine 2 RF	A	705a
Indoine Blue	(Sch)	126
Indoine Blue R	B	126
Indophenol	DH	619
Induline	(ByCo)	699
Induline	(CDCo)	697
Induline	G	697
Induline B	By	699
Induline 2 B	CJ	699
Induline BA	P	697
Induline DB	tM	699
Induline N	tM	699
Induline NN	B	699
Induline NBL	By	699
Induline RN	K	699
Induline S	I	697
Induline WLX	B	699
Induline 1768	K	699
Induline 1778	K	699
Induline 10350	I	697
Induline 38724	H	699
Induline 38725	H	699
Induline Black base 5789	K	700
Induline Red (V. M.)	K	699a
Induline Scarlet (Iris Blue)	B	671
Ingrain Black	H	A759
Ingrain Black 4 B	H	A758
Ink Blue BJTBNOO	GrE	U509
Ink Blue BJTNO	GrE	U509
Ink Blue BNOO	GrE	U509
Intensive Blue B	By	562
Iris Blue	B	648
Irisamine	C	576
Isamine Blue (V. M.)	C	U288
Isodiphenyl Black	G	437
Janus Brown B	M	435
Janus Gray B	M	128
Janus Red B	M	240
Janus Yellow G	M	222
Japan Black	B	U145
Japan Black B	B	U146
Japan Black M	B	U148
Japan Black MBG	B	U149
Japan Black MF	B	U150
Jasmine	G	U629
Jaune Métanile Bromé	P	135
Jet Black APX	B	U151
Jet Black R	By	262
Jet Black RR	B	U152
Jute Black B	By	U153
Jute Black I	tM	U533
Jute Black RNT	B	U153
Jute Coal Black S	By	U154
Katigene Black SWR	By	720By
Katigene Black T 3 B	By	720By
Katigene Black TW	By	720By

Name.	Manufacturer.	Serial No.
Katigene Black TX	By	720By
Katigene Black 26744	By	720By
Katigene Black Brown BW	By	839
Katigene Black Brown GN	By	840
Katigene Black Brown R	By	841
Katigene Blue Black 4 BPA	By	720By
Katigene Brilliant Black B	By	720By
Katigene Brilliant Black FG	By	720By
Katigene Brilliant Green 3 G	By	843
Katigene Brown 2 R	By	845
Katigene Brown V	By	846
Katigene Chrome Blue 5 G	By	847
Katigene Cutch B	By	848
Katigene Deep Black B	By	720By
Katigene Direct Blue B	By	849
Katigene Direct Blue RF	By	850
Katigene Green 2 B	By	746
Katigene Green 4 B	By	746
Katigene Green 2 G	By	746
Katigene Green MK	By	746
Katigene Indigo	By	851
Katigene Indigo B	By	852
Katigene Indigo G	By	853
Katigene Indigo 3 GT	By	854
Katigene Khaki G	By	855
Katigene Olive GN	By	856
Katigene Olive Brown R	By	857
Katigene Red Brown R	By	858
Katigene Red Brown 3 R	By	859
Katigene Violet B	By	860
Katigene Violet 3 R	By	861
Katigene Yellow G	By	862
Katigene Yellow GG	By	863
Katigene Yellow GR	By	864
Katigene Yellow Brown GG	By	865
Katigene Yellow Brown GR	By	866
Katigene Yellow Brown 9 R	By	867
Katigene Yellow Brown RL	By	868
Ketone Blue 4 BN	M	547
Kiton Blue N	I	U668
Kiton Fast Orange G	I	U669
Kiton Red 6 B	I	U672
Kiton Red G	I	U673
Kiton Violet 12 B	I	U674
Kiton Fast Yellow 3 G	I	U670
Kiton Fast Yellow R	I	U671
Kiton Yellow G	I	U675
Kiton Yellow GG	I	U676
Kraft Brown L	B	U155
Kraft Brown basic YZ	B	U155
Kryogene Black BNX	B	755
Kryogene Black TBO	B	720B
Kryogene Black TG	B	720B
Kryogene Black TGE	B	720B
Kryogene Black TGO	B	720
Kryogene Black TGO	B	756
Kryogene Blue BNO	B	753
Kryogene Brown A	B	750
Kryogene Brown GX	B	750
Kryogene Brown RBNXX	B	751
Kyrogene Brown RXX	B	751a
Kryogene Direct Blue B	B	753
Kryogene Direct Blue 3 B	B	754
Kryogene Direct Blue BNAGX	B	753
Kryogene Direct Blue G	B	752
Kryogene Green GX	B	754a
Kryogene Pure Blue R	B	729
Kryogene Red Brown GRXX	B	751b
Kryogene Violet 3 RX	B	754b
Kryogene Yellow G	B	712
Kryogene Yellow GG	B	712
Kryogene Yellow R	B	716
Lacquer Black R	A	U25
Lake Black C	C	U289
Lake Black P	G	U630
Lake Blue ABII	M	U443
Lake Blue ABOII	M	U444
Lake Blue AV	M	U445
Lake Blue AVO	M	U446
Lake Blue I	B	U156
Lake Blue RT	BK	U483
Lake Bordeaux B	M	179
Lake Purple 3 P	B	U157
Lake Red C	M	153
Lake Red D	M	200
Lake Red P	M	132
Lake Scarlet	C	A377
Lake Scarlet Red D	M	A435
Lake Yellow 28227	By	U247
Lanacyl Blue	C	187
Lanacyl Violet	C	186
Lanafuchsine (V. M.)	C	64
Leather Black (V. M.)	C	U200
Leather Black BO	B	U158
Leather Black CR	B	U159
Leather Black I	I	U677
Leather Black	K	U358
Leather Black R	tM	U535
Leather Black T	M	U447
Leather Black 3553	GrE	U511
Leather Brown	GrE	208
Leather Brown	K	U359
Leather Brown GG	By	U248
Leather Brown LX	Lev	283a
Leather Brown R	I	283a
Leather Flavine 9118	I	606g
Leather Flavine 9118	S	606g
Leather Gold 5902	BK	U484
Leather Olive 71930	A	U26
Leather Orange	(Sch)	211
Leather Orange B	Lev	U738
Leather Orange BY	Lev	U739
Leather Red O	M	U448
Leather Yellow A	GrE	606
Leather Yellow FG	Q	606
Leather Yellow FU	Q	606
Leather Yellow G	CG	606
Leather Yellow G	GrE	606
Leather Yellow G	M	606
Leather Yellow 2 G	CG	606
Leather Yellow 3 G	CG	606
Leather Yellow GC	GrE	606
Leather Yellow GN	AW	606
Leather Yellow GS	GrE	606
Leather Yellow M	GrE	606
Leather Yellow NL	BK	606
Leather Yellow O	M	606
Leather Yellow P	tM	606
Leather Yellow R	Q	606
Leather Yellow TBR	tM	606
Leather Yellow TG	Q	606
Leather Yellow 5828a	L	606
Lemon Yellow R	K	U360
Leuco Dark Green B	By	866
Leuco-Gallo Thionine DH	DH	664
Leucol Brown B	By	872
Light Blue	tM	521
Light Blue G	tM	539
Light Green 2 A	tM	518
Light Green SF	B	504
Light Green SF	B	505
Light Green SL	B	505
Lilac PC	DH	U599
Lilac PC	G	U631
Liquid Oil Black N	tM	U536
Lithol Claret B	B	A80
Lithol Fast Orange R	B	A82
Lithol Fast Scarlet B	B	73a
Lithol Fast Scarlet G	B	73a
Lithol Fast Scarlet RN	B	73a
Lithol Red 3 B	B	173a
Lithol Red GG	B	173a
Lithol Red 3 G	B	173a
Lithol Red R	B	173
Lithol Red RG	B	173a
Lithol Red RS	B	173a
Lithol Rubine BN	B	152
Magenta	M	512
Magenta A	B	512
Magenta AB	B	512
Magenta B	C	512
Magenta FABS	H	512
Magenta L	B	512
Magenta S	B	512

Name.	Manufacturer.	Serial No.
Magenta TP	tM	512
Magenta (acetate)	B	512
Magenta crystals	K	512
Magenta crystals	tM	512
Magenta crystals 3	tM	512
Magenta crystals II	tM	512
Malachite Green	M	495
Malachite Green	tM	495
Malachite Green BX	B	495
Malachite Green IA 4 B	M	495
Malachite Green P	K	495
Malachite Green Z	CJ	495
Malachite Green 2639	K	495
Malachite Green Crystals	AW	495
Malachite Green Crystals	G	495
Malachite Green Crystals MS	M	495
Malachite Green Crystals	tM	495
Malachite Green Crystals NN	K	495
Malachite Green Base	M	495
Malachite Green Salt 10	CJ	495
Marine Blue RR	tM	U537
Maroon	By	512
Marron Cordu	Q	512
Mars Red AX	B	163
Mars Red GX	B	163
Martius Yellow 741	G	6
Martius Yellow 6749	BK	6
Mauve	P	688
Melanogene Blue	M	745
Melantherine 1H	I	333c
Melantherine 11818	I	333c
Melantherine 12760	I	333c
Meldola's Blue 3 R	S	649
Melogene Blue BH	S	438
Mercerine Wool Scarlet 5 B	H	U756
Mercerol Brown 3 R	H	U754
Mercerol Orange 2 R	H	U755
Meridian Black AE	S	U708
Meridian Black AN	S	U709
Metachrome Blue B	A	U27
Metachrome Blue G	A	U28
Metachrome Blue Black 2 B	A	U29
Metachrome Blue Black 2 BX	A	U30
Metachrome Bordeaux R	A	92
Metachrome Brown B	A	89
Metachrome Brown BL	A	U31
Metachrome Brown BRL	A	U32
Metachrome Olive B	A	A25
Metachrome Olive Brown G	A	A26
Metachrome Orange R	A	58
Metachrome Orange 3 R	A	U33
Metachrome Red G	A	U34
Metachrome Violet B	A	U35
Metachrome Violet 2 R	A	U36
Metachrome Yellow RA	A	A27
Metamine Brown	S	U710
Metanil Yellow	A	134
Metanil Yellow	AW	134
Metanil Yellow	B	134
Metanil Yellow	By	134
Metanil Yellow	CG	134
Metanil Yellow	CJ	134
Metanil Yellow	K	134
Metanil Yellow	S	134
Metanil Yellow	(Sch)	134
Metanil Yellow	tM	134
Metanil Yellow	WD	134
Metanil Yellow GR	tM	134
Metanil Yellow PL	B	134
Metanil Yellow PLG	B	134
Metanil Yellow X	tM	134
Metanil Red 3 B	By	A274
Metaphenylene Blue 2 B	C	691
Metaphenylene Blue R	C	690
Methyl Alkali Blue	B	535
Methyl Blue	tM	537
Methyl Blue MBS	GrE	537
Methyl Blue for silk MLB	GrE	537
Methyl Eosine	B	588
Methyl Gallus Blue	G	U632
Methyl Green	P	519
Methyl Indone B	C	127
Methyl Lyons Blue	G	537c
Methyl Orange	tM	138
Methyl Silk Blue (new)	G	537d
Methyl Soluble Blue 3 S	B	U160
Methyl Violet	(H&M)	515
Methyl Violet	tM	515
Methyl Violet (V. M.)	C	515
Methyl Violet B	B	515
Methyl Violet B	G	515
Methyl Violet BB	B	515
Methyl Violet 2 B	G	515
Methyl Violet 2 B	K	515
Methyl Violet BB	M	515
Methyl Violet 2 B	tM	515
Methyl Violet 3 B	tM	515
Methyl Violet 4 B	M	515
Methyl Violet 4 B	tM	515
Methyl Violet 5 B	By	517
Methyl Violet 5 B	tM	515
Methyl Violet 6 B	B	517
Methyl Violet 6 B	M	515
Methyl Violet 7 B	By	517
Methyl Violet base 7 B	BK	517
Methyl Violet 7 B	tM	515
Methyl Violet B-BBM	M	515
Methyl Violet 3 BHN	tM	515
Methyl Violet BIA	tM	515
Methyl Violet 2 BIA	tM	515
Methyl Violet 2 BP	tM	515
Methyl Violet 3 BIA	tM	515
Methyl Violet 5 BIA	tM	515
Methyl Violet 2 BN	tM	515
Methyl Violet 6 BN	tM	515
Methyl Violet 4 BOOATN	GrE	515
Methyl Violet DB	tM	515
Methyl Violet IB	By	515
Methyl Violet IBA	By	515
Methyl Violet N	B	515
Methyl Violet NY 147	B	515
Methyl Violet R	M	515
Methyl Violet R	tM	515
Methyl Violet 3 R	M	515
Methyl Violet 3 R	tM	515
Methyl Violet 5 R	B	515
Methyl Violet 5 R	M	515
Methyl Violet 5 R	Q	515
Methyl Violet 5 R	tM	515
Methyl Violet 5 RA	tM	515
Methyl Violet RIA	tM	515
Methyl Violet 5 RO	B	515
Methyl Violet 129	K	515
Methyl Violet base	B	515
Methyl Violet base BB	K	515
Methyl Violet base 74418	H	515
Methylene Blue	C	659
Methylene Blue	G	659
Methylene Blue	M	659
Methylene Blue	Q	659
Methylene Blue	WD	659
Methylene Blue AN	B	663
Methylene Blue B	B	659
Methylene Blue B	By	659
Methylene Blue B	tM	659
Methylene Blue BB	B	659
Methylene Blue BB	By	659
Methylene Blue 2 B	H	659
Methylene Blue BB	M	659
Methylene Blue BB	S	659
Methylene Blue 2 B	tM	659
Methylene Blue BA	tM	659
Methylene Blue BEX	B	659
Methylene Blue 2 BD	A	659
Methylene Blue BG	B	659
Methylene Blue BG	tM	659
Methylene Blue BGN	B	659
Methylene Blue BX	A	659
Methylene Blue D	I	659
Methylene Blue DBBM	M	659
Methylene Blue DDBM	M	659
Methylene Blue FKII	K	659
Methylene Blue G	I	659
Methylene Blue HGG	B	659
Methylene Blue L	K	659
Methylene Blue MD	B	659

Name.	Manufacturer.	Serial No.
Naphthol Yellow	Q	7
Naphthol Yellow S	B	7
Naphthol Yellow S	By	7
Naphthol Yellow SE	B	7
Naphthol Yellow SE	By	7
Naphthol Yellow SLC	M	7
Naphthol Yellow SLZ	M	7
Naphthyl Blue Black N	C	268
Naphthylamine Black (V. M.)	C	266
Naphthylamine Black 4 AN	By	217d
Naphthylamine Black 4 B	By	217d
Naphthylamine Black 10 B	By	217
Naphthylamine Black 4 BK	By	217d
Naphthylamine Red 3 BM	B	168a
Naphthylamine Black B 2 N	K	266a
Naphthylamine Black 4 BN	By	217d
Naphthylamine Black 6 BN	By	217d
Naphthylamine Black BOO	K	266a
Naphthylamine Black 4 BX	B	266a
Naphthylamine Black C8R	By	217d
Naphthylamine Black C8B	By	217d
Naphthylamine Black F	By	217d
Naphthylamine Black NA	K	266a
Naphthylamine Black N8BN	K	266a
Naphthylamine Black 8X	B	266a
Naphthylamine Black 2002	K	266a
Naphthylamine Black 2003	K	266a
Naphthylamine Blue Black	C	A380
Naphthylamine Green T	By	A276
Naphthylamine Sky Blue DD	NF	A530
Navy Blue	C	A381
Navy Blue D	I	537a
Navy Blue D	S	537a
Navy Blue F	AW	537
Navy Blue GR	CV	537a
Navy Blue 17184	K	U367
Navy Blue 5 R	CV	537a
Navy Blue SM	P	537a
Navy Blue T	AW	537
Neotolyl Black B	M	U450
Neotolyl Black BB	M	U451
Neotolyl Black 4 B	M	U452
Neotolyl Black TL	M	U453
Neotolyl Black VL	M	U454
Neptune Blue B	B	545
Neptune Blue BG	B	543
Neptune Blue BGN	B	543
Neptune Blue BGX	B	543
Neptune Blue BR	B	545a
Neptune Blue BTE	B	545a
Neptune Blue R	B	545a
Neptune Brown RX	B	U161
Neptune Green SAX	B	503
Neptune Green SBL	B	503
Neptune Green SGX	B	503
Nerazine (V. M.)	C	U293
Nerol B	A	A32
Nerol 2 B	A	A33
Nerol BL	A	A34
Nerol 2 BL	A	A35
Nerol VL	A	A36
Neutral Blue R	AW	676
Neutral Blue 3 R	M	U455
Neutral Gray G	A	241
Neutral Red	C	670
Neutral Violet	C	669
Neutral Violet O	M	U456
New Acid Chrome Black R	AW	A607
New Chrome Black PK	CV	275a
New Blue B, G	C	650
New Blue RR	B	649
New Blue RG	By	649
New Claret B	B	A83
New Claret P	B	A85
New Claret R	B	A86
New Coccine	A	169
New Direct Blue S	K	U368
New Ethyl Blue BS	M	U457
New Ethyl Blue RS	M	U458
New Fast Blue F, H	By	652
New Fast Blue R	I	652a
New Fast Blue RS	I	652a
New Fast Gray	By	681
New Fast Green 3 B	I	497
New Fast Straw Yellow	AW	A608
New Fuchsine S	GrE	513
New Magenta O	GrE	513
New Magenta O	M	512
New Methylene Blue (V. M.)	C	663
New Methylene Blue F	By	663
New Methylene Blue GG	C	651
New Nigrosine	AW	700
New Patent Blue B	By	563
New Patent Blue GA	By	545b
New Phosphine G	C	75
New Polychromine FB	G	616
New Toluylene Brown OO	GrE	A465
New Toluylene Brown O	GrE	A464
New Toluylene Brown R	GrE	A466
New Victoria Black B	By	262
New Victoria Blue B	By	558
Niagara Black Blue R	(Sch)	441
Niagara Blue B, 2 B	(Sch)	337
Niagara Blue 4 B	(Sch)	426
Niagara Blue 6 B	(Sch)	424
Niagara Blue BR	(Sch)	386
Niagara Blue GW, HW, RW	(Sch)	336
Niagara Blue R	(Sch)	326
Niagara Fast Red FD	(Sch)	343
Niagara Violet 2 B	(Sch)	326
Niagara Violet 3 R	(Sch)	327
Nicholson Blue 4 B	P	536
Night Blue	B	560
Night Blue	I	560
Night Green A	tM	503
Nigramine	CG	682
Nigrophor	B	218
Nigrosine	(CDCo)	698
Nigrosine	(H&M)	700
Nigrosine	K	698
Nigrosine	tM	698
Nigrosine (V. M.)	K	698
Nigrosine s. i. s	A	698
Nigrosine spirit soluble	(ByCo)	698
Nigrosine soluble in alcohol	tM	698
Nigrosine soluble in fat	tM	698
Nigrosine s. i. w	A	700
Nigrosine, water soluble	(ByCo)	700
Nigrosine (soluble in water) 19665	CJ	700
Nigrosine AD s. i. w	A	700
Nigrosine AR s. i. w	A	700
Nigrosine (soluble in water) AR	CJ	700
Nigrosine B	I	700
Nigrosine B	tM	700
Nigrosine B s. i. s	A	698
Nigrosine B s. i. s	tM	698
Nigrosine 2 B	G	698
Nigrosine BB	I	700
Nigrosine 2 B	tM	700
Nigrosine 3 B	tM	700
Nigrosine BC	G	698
Nigrosine BT	G	698
Nigrosine BTR	tM	698
Nigrosine D	tM	700
Nigrosine FAL s. i. w	A	700
Nigrosine FAR s. i. w	A	700
Nigrosine 3 G s. i. w	A	700
Nigrosine I	S	700
Nigrosine IAA	tM	700
Nigrosine K	By	700
Nigrosine K 3 B	GrE	700
Nigrosine KSB	GrE	700
Nigrosine KW	GrE	700
Nigrosine KWR	GrE	700
Nigrosine L	C	700
Nigrosine MS	B	700
Nigrosine NBL	By	700
Nigrosine NJKSB	GrE	700
Nigrosine O	WD	700
Nigrosine OL	K	698
Nigrosine SML	K	698
Nigrosine SUL	K	698
Nigrosine T	B	700
Nigrosine T	tM	698
Nigrosine T	WD	700
Nigrosine TRT	G	698

Name.	Manufacturer.	Serial No.
Nigrosine TTR	tM	698
Nigrosine WG	B	700
Nigrosine WL	B	700
Nigrosine WLA	B	700
Nigrosine WLAN	B	700
Nigrosine WLASB	B	700
Nigrosine WLASG	B	700
Nigrosine WLG	B	700
Nigrosine WLN	B	700
Nigrosine WLP	B	700
Nigrosine WLY	B	700
Nigrosine 3307	CJ	700
Nigrosine 4614	CJ	700
Nigrosine 11029	WD	700
Nigrosine 14029	S	700
Nigrosine 16633	WD	700
Nigrosine 16635	Q	698
Nigrosine 18872	tM	698
Nigrosine Base	WD	698
Nigrosine Base 2 B	tM	698
Nigrosine C base	B	700
Nigrosine Base R	tM	698
Nigrosine Black	H	698
Nigrosine Black B	GrE	700
Nigrosine Crystals 146	K	700
Nigrosine Crystals 1966	K	700
Nigrosine Crystals WS	K	700
Nigrosine Oil 5781	GrE	698
Nigrosines from aniline (indulines)	(Sch)	699
Nigrosines from nitrobenzol	(Sch)	700
Nile Blue A	B	653
Nile Blue B	B	653
Nile Blue 2 B	B	654
Nile Blue R	B	653
Nitro Azomine Green F	CV	A730
Nitrosamine Pink BXF	B	98
Nyanza Black B	A	345
Oil Black (V. M.)	CJ	U495
Oil Black (V. M.)	K	U369
Oil Black 6 B	B	U163
Oil Black 6 G	B	U164
Oil Black HG	B	U165
Oil Black 11410	H	U759
Oil Black 39694	H	U759
Oil Blue	B	U166
Oil Blue Black 114	K	U370
Oil Brown BG	K	U371
Oil Color Brown	H	U760
Oil Color Canary	H	U761
Oil Color Yellow	H	U762
Oil Orange (V. M.)	K	U372
Oil Orange AR	K	U372
Oil Orange LG	I	36a
Oil Orange R	B	U167
Oil Orange 3 R	B	U168
Oil Orange 2311	(Sch)	36
Oil Red (V. M.)	K	U373
Oil Red B	B	U169
Oil Red G	B	U170
Oil Red 7327	CJ	U496
Oil Yellow	H	32b
Oil Yellow (V. M.)	K	U374
Oil Yellow A	(Sch)	31
Oil Yellow G	B	U171
Oil Yellow R	B	U172
Oil Yellow 2338	(Sch)	36a
Oil Yellow 2625	(Sch)	32
Oil Yellow 2681	(Sch)	68
Oil Yellow 7869	I	32a
Old Gold	Q	U804
Oleate Green O	Q	U805
Omega Chrome Cyanine R	S	U711
Omega Chrome Red B	S	U712
Omega Chrome Black	S	85
Opal Blue	M	521
Opaline Blue R	I	U679
Orange A	(Sch)	145
Orange D	B	37a
Orange G	A	38
Orange G	B	38
Orange G	K	139a
Orange G	M	38
Orange 2 G	H	38
Orange GC	K	139a
Orange GD	L	144a
Orange GRX	B	37
Orange GS	H	139
Orange GT	By	70
Orange N	I	139
Orange NA	GrE	79a
Orange PC	DH	145a
Orange R	B	151
Orange R	(Sch)	151
Orange 2 R	K	139a
Orange RO	B	151a
Orange RO	By	A277
Orange S	B	144
Orange TA	A	311
Orange X	H	37a
Orange I	B	144
Orange I	By	144
Orange I	tM	144
Orange II	B	145
Orange II	(CDCo)	145
Orange II	(H&M)	145
Orange II	K	145
Orange II	(WB)	145
Orange II P	B	145
Orange No. 3	P	47
Orange IV	B	139
Orange IV	G	139
Orange IV	K	139
Orange 4	P	139
Orange IV	tM	139
Orange 13	S	58c
Orange 14	S	58c
Orange 67 (V. M.)	C	38
Orange 227	Q	36b
Orange 23981	S	58c
Orange Crystals	AW	38
Orange Crystals 2 G	WD	38
Orange Red pure	A	174
Orchil RCEP	A	U48
Orchil OPAG	A	U47
Orchil RPH	A	U49
Oriol Yellow EC	G	199
Orsellline BB	By	253
Ortho Black 3 B	A	A37
Ortho Cyanine B	A	A38
Ortho Cyanine 6 G	A	A39
Oxamine Acid Brown G	B	A87
Oxamine Black A	B	A88
Oxamine Black BB	B	A89
Oxamine Black BHN	B	333
Oxamine Black BHX	B	333
Oxamine Black BBNX	B	A90
Oxamine Black BRTX	B	A91
Oxamine Black RN	B	A92
Oxamine Blue A	B	410
Oxamine Blue AX	B	410
Oxamine Blue B	B	421
Oxamine Blue 3 B	B	421a
Oxamine Blue BG	B	421a
Oxamine Blue GNX	B	421a
Oxamine Blue 3 R	B	421a
Oxamine Blue 4 R	B	385
Oxamine Brilliant Red BX	B	A93
Oxamine Brilliant Violet RX	B	A94
Oxamine Brown A	B	A95
Oxamine Brown G	B	A96
Oxamine Brown 3 G	B	A97
Oxamine Brown GR	B	A98
Oxamine Brown GX	B	A99
Oxamine Brown 3 GX	B	A100
Oxamine Brown R	B	344
Oxamine Brown RG	B	344
Oxamine Claret B	B	A101
Oxamine Copper Blue RR	B	A102
Oxamine Copper Blue RRX	B	A103
Oxamine Dark Blue BGX	B	A105
Oxamine Dark Blue BGE	B	A104
Oxamine Dark Blue BRRX	B	A107
Oxamine Dark Blue R	B	A106
Oxamine Dark Brown G	B	A108
Oxamine Dark Brown R	B	A109

Name.	Manufacturer.	Serial No.
Oxamine Fast Blue 6 VX	B	A110
Oxamine Fast Blue RR	B	A111
Oxamine Fast Pink BX	B	A112
Oxamine Fast Red F	B	343
Oxamine Green BX	B	474
Oxamine Green GX	B	475
Oxamine Light Blue B	B	A113
Oxamine Light Blue GX	B	A114
Oxamine Light Brown G	B	A115
Oxamine Light Brown R	B	A116
Oxamine Light Green B	B	A117
Oxamine Light Green G	B	A118
Oxamine Light Green 3 G	B	A119
Oxamine Maroon	B	345
Oxamine Pure Blue 6 BXX	B	424
Oxamine Red	B	346
Oxamine Red 3 B	B	346
Oxamine Red BNX	B	346
Oxamine Violet	B	326
Oxamine Yellow A	B	A120
Oxamine Yellow 3 G	B	A121
Oxy Acid Red 6 BO	GrE	U512
Oxy Chlorazol Blue B	H	A760
Oxy Diamine Black (V. M.)	C	A382
Oxy Diamine Blue (V. M.)	C	A383
Oxy Diamine Brown (V. M.)	C	A384
Oxy Diamine Carbon (V. M.)	C	A385
Oxy Diamine Orange (V. M.)	C	362
Oxy Diamine Red S	C	A396
Oxy Diamine Violet (V. M.)	C	326
Oxy Diamine Yellow	C	198
Oxy Diaminogen (V. M.)	C	A387
Oxychrome Black F	GrE	A467
Oxychrome Blue Black BGO	GrE	A468
Oxychrome Brown V	GrE	A469
Oxychrome Brown VA	GrE	A470
Oxychrome Brown VN	GrE	A471
Oxychrome Yellow D	GrE	A472
Oxychrome Yellow DG	GrE	A473
Oxychrome Yellow 2 G	GrE	A474
Oxyphenine A	ClCo	617
Oxyphenine C	ClCo	617
Oxyphenine GG	ClCo	617
Oxyphenine R	ClCo	617
Pacific Blue	H	540
Palatine Black 4 B	B	220
Palatine Black 3 GX	B	220
Palatine Black MZ	B	220
Palatine Black SF	B	220
Palatine Black SFM	B	220
Palatine Chrome Black	B	288
Palatine Chrome Black 6 BX	B	181
Palatine Chrome Black F	B	288
Palatine Chrome Black S	B	289
Palatine Chrome Blue BB	B	A122
Palatine Chrome Blue W 2 B	B	A123
Palatine Chrome Brown 5 G	B	154a
Palatine Chrome Brown GGTX	B	154a
Palatine Chrome Brown GGX	B	154a
Palatine Chrome Brown R	B	154a
Palatine Chrome Brown W	B	154
Palatine Chrome Brown WN	B	154
Palatine Chrome Brown WNR	B	154
Palatine Chrome Brown WNRTX	B	154
Palatine Chrome Green G	B	A124
Palatine Chrome Green GX	B	A125
Palatine Chrome Red B	B	202
Palatine Chrome Red R	B	A126
Palatine Chrome Violet	B	156
Palatine Light Yellow R	B	A127
Palatine Orange R	B	A128
Palatine Red A	B	109
Palatine Scarlet A	B	81
Palatine Scarlet G	B	81a
Palatine Scarlet 3 R	B	81a
Palatine Scarlet 4 R	B	81a
Palatinite	B	U173
Panama Black 3 G	(Sch)	436
Panama Black R	(Sch)	436
Paper Blue 6 G	(Sch)	537
Paper Blue MD	M	U459
Blue TRR	B	U174
lue 33598	S	U713

Name.	Manufacturer.	Serial No.
Paper Blues, green shades	(Sch)	537
Paper Blues, red shades	(Sch)	537
Paper Brown BB	B	U175
Paper Brown BL	B	U176
Paper Brown RT	B	U177
Paper Fast Bordeaux B	By	U255
Paper Green D	K	U375
Paper Orange CR	K	U376
Paper Orange residue	K	U377
Paper Scarlet (V.M.)	K	U378
Paper Yellow	WD	303a
Paper Yellow G	B	303a
Paper Yellow GGX	B	303a
Paper Yellow 3 GX	B	303
Paper Yellow RRX	B	303a
Paper Yellow 3 RXX	B	303a
Paper Yellow 03995	S	303a
Paper Yellow 22812	B	303a
Paper Yellow 33598	S	303a
Para Black B	By	A278
Para Blue	CG	702
Para Brilliant Orange G	By	A282
Para Brown GK	By	A279
Para Brown RK	By	A280
Para Brown SC	By	A281
Para Diamine Black (V.M.)	C	A388
Para Green 2 BL	By	A283
Para-Fuchsine	GrE	511
Para Orange G	By	A284
Para Yellow	AW	U588
Paramine	B	U178
Paraphenylene Blue R	WD	701
Paraphenylene Violet	WD	695
Paraphosphine (V.M.)	C	U294
Paratol Chrome Yellow L	M	U460
Paratol Fast Yellow G	M	U461
Paratol Lake Red KP	M	U462
Paratol Lake Red LC	M	U463
Paratol Lake Red LP	M	U464
Paratol Scarlet 3 B	M	U465
Paratol Scarlet 3 BX	M	U465
Parazole Brown RK	K	U379
Paris Violet	P	515
Paris Violet 3 B	P	515
Paris Violet 6 B	P	515
Paris Violet 3 BA	P	515
Paris Violet 4 BA	P	515
Paris Violet 4 R	P	515
Paris Violet 90	P	515
Patent Alizarin Black DEB	M	807a
Patent Alizarin Black DFF	M	807a
Patent Alizarin Black DFFA	M	807a
Patent Black (V.M.)	C	U295
Patent Blue A	K	545
Patent Blue A	M	545
Patent Blue AE	M	545
Patent Blue B	A	543
Patent Blue B	M	543
Patent Blue L	M	543
Patent Blue LE	M	543
Patent Blue NO	M	543
Patent Blue V	G	543
Patent Blue V	M	543
Patent Blue V	tM	543
Patent Blue V new	M	543
Patent Blue J 3	M	543a
Patent Blue JI	M	543a
Patent Blue WE	M	543a
Patent Marine Blue	M	543
Patent Marine Blue LER	M	543b
Patent Phosphine G	I	606c
Patent Phosphine M	I	606c
Patent Phosphine R	I	606c
Patent Phosphine 19332	I	606c
Pegu Brown G	L	A511
Peri Wool Blue	C	87
Permanent Blue GR	CG	U493
Permanent Orange R	A	131
Permanent Red B	A	152a
Permanent Red 2 B	A	152a
Permanent Red 4 B	A	152
Permanent Red R	A	152a
Permanent Red 4 R	A	152a

Name.	Manufacturer.	Serial No.
Pyrogene Orange R	I	S164
Pyrogene Yellow M	I	734
Pyrogene Yellow O	I	734
Pyrol Brown G	L	S135
Pyrol Brown 69181	L	S136
Pyrol Brown (yellowish)	L	S135
Pyronine G	L	568
Pyrophosphine C	WD	U547
Quercitron Substitute V	B	U184
Quercitron Substitute WBL	B	U183
Quinoline Blue	G	611
Quinoline Red	A	610
Quinoline Yellow	A	612
Quinoline Yellow	AW	613
Quinoline Yellow	B	612
Quinoline Yellow	By	613
Quinoline Yellow	C	613
Quinoline Yellow	I	613
Quinoline Yellow	M	613
Quinoline Yellow	S	612
Quinoline Yellow KT	By	613
Quinoline Yellow N	By	613
Quinoline Yellow O	M	613
Quinoline Yellow P	B	612
Quinoline Yellow 9272	I	612
Quinoline Yellow, water soluble	A	613
Radial Yellow G	B	30
Rapid Filter Green I	M	U467
Rapid Filter Red I	M	U468
Raven Black 34588	H	U764
Red (V. M.)	CJ	U497
Red PC	DH	U600
Red PC	G	U642
Red 2 S	P	483a
Red Blue BSR	GrE	U513
Red Brown	S	106c
Red Color	Q	U807
Red Coralline		556
Red for Leather O	M	U469
Red for Leather R	A	U60
Red Lake RL	By	U256
Red Lake RMT	By	U257
Red Scarlet	Q	U808
Red Violet	tM	514
Red Violet 5 RS	B	525
Reddish Brown	K	U384
Renol Black BHN	tM	462b
Renol Black SF	tM	462b
Renol Black ST	tM	462b
Renol Blue B	tM	410
Renol Bordeaux	tM	A517
Renol Brilliant Yellow	tM	303
Renol Brown MB	tM	344
Renol Brown RA	tM	344
Renol Dark Green NOONG	tM	A518
Renol Fast Red 4 B	tM	A519
Renol Green B	tM	474
Renol Light Blue A	tM	A520
Renol Light Blue G	G	A658
Renol Light Blue G	tM	A521
Renol Orange 3 AP	G	392a
Renol Orange 3 AP	tM	392a
Renol Red	tM	A522
Renol Yellow 3 R	tM	9
Renolamine Black BHN	G	333
Renolamine Black BHN	tM	333
Resoflavin W	B	771
Resorcin Blue	M	647
Resorcin Brown	AW	211
Resorcin Brown	B	211
Resorcin Brown	BK	211
Resorcin Brown	H	211
Resorcin Brown	K	211
Resorcin Brown	(Sch)	211
Resorcin Brown	WD	211
Resorcin Brown QV	G	211
Resorcin Yellow	(Sch)	143
Rheonine AL	B	607
Rheonine GD	B	607
Rhodamine AL	B	572a
Rhodamine B	AW	573
Rhodamine B	B	573
Rhodamine B	By	573
Rhodamine B	K	573
Rhodamine B	I	573
Rhodamine B	S	573
Rhodamine 3 B	I	574
Rhodamine BN	Q	573
Rhodamine G	B	572
Rhodamine 3 G	B	576
Rhodamine 5 G	By	576a
Rhodamine 5 G	S	572a
Rhodamine 6 G	B	571
Rhodamine 6 G	I	571
Rhodamine 12 GF	I	578
Rhodamine 6 GN	B	571
Rhodamine S	B	570
Rhodamine S	I	570
Rhodamine R	I	572a
Rhodamine 6302	Q	572a
Rhodamine Scarlet G	By	576b
Rhodine 2 G	I	577
Rhodine 12-GM	I	575
Rhoduline Blue 6 G	By	U258
Rhoduline Heliotrope 3 B	By	U259
Rhoduline Orange N	By	603a
Rhoduline Orange NO	By	603a
Rhoduline Violet	By	684
Rhoduline Yellow 6 G	By	618a
Roccelline	C	161
Roccelline	FA	161
Roccelline FS	H	161
Roccelline MB	tM	161
Roccelline S	G	161
Roccelline S	tM	161
Rosanthrene AWL	I	A704
Rosanthrene B	I	A705
Rosanthrene CB	I	A706
Rosanthrene R	I	A707
Rosanthrene Bordeaux B	I	A708
Rosanthrene Orange 16754	I	A709
Rosanthrene Violet SR	I	A710
Rosazeine B	M	U470
Rosazeine B 5	M	U471
Rosazeine 6 G	M	U472
Rosazurine B	By	372
Rosazurine G	By	371
Rose (V. M.)	CJ	U498
Rose Bengale	DH	595
Rose Bengale	G	597
Rose Bengale	M	597
Rose Bengale	S	595
Rose Bengale B	B	597
Rose Bengale B	K	597
Rose Bengale B	M	597
Rose Bengale N	C	595
Rose Bengale NTO	B	595
Roseine B	S	512
Rosinduline G	K	675
Rosinduline 2 G	K	674
Rosolane	P	668
Rosolane O, T, R	M	687
Rosophenine	ClCo	483
Rosophenine SG	ClCo	195
Rubine	A	512
Rubine N	A	512
Rubine N	B	U139
Rubramine	CG	703
Russian Leather Red R	A	512
Russian Red	C	512
Safranine	AW	679
Safranine	H	679
Safranine	Q	679
Safranine (V. M.)	C	679
Safranine B	G	679
Safranine B	M	679
Safranine B	tM	679
Safranine 6 B	(Sch)	680
Safranine FF	By	679
Safranine F	K	679
Safranine FB	B	679
Safranine MN	B	683
Safranine O	M	679
Safranine T	B	679
Safranine TK	B	679
Safranine Y	(Sch)	679

Name.	Manufacturer.	Serial No.
Safranine 1081	K	679
Safranine bluish	K	680
Safranine (blue shade)	L	679
St. Denis Black	P	718
Salicine Black (V.M.)	K	181b
Salicine Black K	K	181b
Salicine Black LR	K	181b
Salicine Black S	K	181b
Salicine Black U	K	181
Salicine Black UL	K	181
Salicine Blue B	K	A403
Salicine Bordeaux R	K	A404
Salicine Brown (V.M.)	K	A405
Salicine Dark Green CS	K	A406
Salicine Green CP	K	A407
Salicine Orange 2 R	K	A408
Salicine Orange 2541	K	A409
Salicine Orange 2542	K	A409
Salicine Red B	K	A410
Salicine Red G	K	A411
Salicine Violet R	K	A412
Salicine Yellow (V.M.)	K	177b
Salmon Red	A	120
Scarlet	(CDCo)	174
Scarlet (V.M.)	C	247
Scarlet AB	GrE	A475
Scarlet 6 B	GrE	A476
Scarlet BN	B	A131
Scarlet C	Q	196a
Scarlet GA	B	A132
Scarlet GRCL	M	174a
Scarlet GX	K	U385
Scarlet M	M	174a
Scarlet 15 N	B	A133
Scarlet P	K	U385
Scarlet PO	K	U385
Scarlet 2 PR	K	U385
Scarlet R	M	174a
Scarlet RR	H	82
Scarlet 2 R	K	U385
Scarlet 2 R	M	174a
Scarlet 2 R	tM	176
Scarlet 3 R	M	174a
Scarlet 4 R	P	176a
Scarlet 4 R	tM	176a
Scarlet 6 R	M	174a
Scarlet 6 R crystals	BK	223b
Scarlet 2 RCL	M	174a
Scarlet 3 RCL	M	174a
Scarlet RD	H	82d
Scarlet 4 RI	AW	106b
Scarlet 2 RII	AW	106a
Scarlet 4 RZ	M	174a
Scarlet S 2 R	B	A134
Scarlet S 3 R	B	A135
Scarlet 2 SRM	B	A136
Scarlet X	K	U385
Scarlet XX	K	U385
Scarlet XK	Q	U810
Scarlet 50	H	169
Scarlet 231	CJ	76a
Scarlet 243	CJ	76a
Scarlet 1610	K	U385
Scarlet 7214	B	A137
Scarlet 53446	A	U61
Scarlet (yellow shade) 17413	B	A138
Scarlet (yellow shade) 24211	B	A139
Scarlet for silk S	P	247c
Scarlet residue	K	U385
Seal Brown W	P	U594
Sella Brilliant Yellow P	G	U643
Sella Flavine G	G	U644
Sepia Black FW	I	U682
Sepia Black 14998	I	U682
Serge Blue	A	539
Setocyanine	G	500
Setoglaucine	G	496
Setopaline	G	500
Silk Blue	tM	539a
Silk Blue B	B	537
Silk Blue B	BK	559
Silk Blue B	Q	539
Silk Blue BJBNOO	GrE	539a
Silk Blue BS 3 BB	GrE	539a
Silk Blue BT 5 BOO	GrE	539a
Silk Blue BTB	GrE	539a
Silk Blue BTR	GrE	539a
Silk Blue 4 R	Q	539
Silk Blue 4	By	537
Silk Blue 5770	BK	559
Silk Gray CB	K	U386
Silk Gray 281	K	U386
Silk Wool Black 3 B	M	U473
Silk Yellow N	BK	U485
Silk Yellow N	Q	U811
Silver Gray N	C	700
Silver Gray P	A	700
Sirius Yellow G	B	758
Sitara Fast Red RL	tM	56
Sitara Orange I	tM	A523
Solamine Blue B	A	A44
Solamine Red	A	A44a
Solfigene Blue Green B	I	U684
Solfigene Blue Green 16444	I	U683
Solfigene Cutch	I	U685
Solfigene Cyanine	I	U686
Solfigene Deep Black (V.M.)	I	U688
Solfigene Deep Black 14717	I	U687
Solfigene Green GG	I	U689
Solid Blue (V.M.)	C	U296
Solid Blue 3 R	S	699
Solid Blue RX	Q	699
Solid Blue SBAOOOO	GrE	699
Solid Blue SBSOOO	GrE	699
Solid Blue Base SBXBX	GrE	699
Solid Brown	Q	U812
Solid Brown KF	Q	U813
Solid Brown O	M	U474
Solid Green (V.M.)	C	495
Solid Green 3 G	Q	499
Solid Green O	M	1
Solid Red B	Q	U814
Solid Yellow G	Q	137
Soluble Blue	(ByCo)	537
Soluble Blue	G	539
Soluble Blue	(H&M)	537
Soluble Blue	tM	539
Soluble Blue (V. M.)	K	539
Soluble Blue AOOOO	GrE	539
Soluble Blue B	CG	539
Soluble Blue BCBII	CG	539
Soluble Blue BLSE	P	539
Soluble Blue 3 BS	P	539
Soluble Blue BS 3 BB	GrE	539
Soluble Blue BSJ	GrE	539
Soluble Blue C 2	K	539
Soluble Blue C 3	K	539
Soluble Blue C 5	K	539
Soluble Blue CX	K	539
Soluble Blue ELOOO	GrE	539
Soluble Blue HA	B	539
Soluble Blue IN	B	539
Soluble Blue 4 R	B	539
Soluble Blue 5 R	tM	539
Soluble Blue RM	M	539
Soluble Blue TB	B	539
Soluble Blue TL	B	539
Soluble Blue 3376	B	539
Soluble Blue 14108	B	539
Soluble Blue 14710	B	539
Soluble Blue 23413	B	539
Soluble Blue base SBXR	GrE	539
Soluble Blue crystals	tM	539
Soluble Blue (greenest shade)	tM	539
Soluble Navy Blue	G	539c
Sorbin Red	B	64
Sorbin Red X	B	64
Special Blue G	B	U190
Special Phosphine G	S	606
Spirit Black	G	U645
Spirit Black (V.M.)	CJ	U499
Spirit Blue BVE	P	521
Spirit Blue R	M	521
Spirit Blue, green shades	(Sch)	521
Spirit Blue, red shades	(Sch)	521
Spirit Jet Nigrosine 24618	CJ	698

Name.	Manufacturer.	Serial No.
Spirit Nigrosine	WD	698
Spirit Nigrosine LM	H	698
Spirit Nigrosine P	H	698
Stanley Red	ClCo	193
Steam Green G	B	U191
Stilbene Yellow 3 G	ClCo	10
Stilbene Yellow 3 G	CR	10
Stilbene Yellow 2 GP	B	10
Stilbene Yellow 3 GPX	B	10
Stilbene Yellow GX	B	10
Stilbene Yellow RX	B	10a
Stilbene Yellow 5912	B	10b
Straw Blue G	By	U260
Sudan G	A	35
Sudan 2 G	A	35
Sudan R	A	93
Sudan I	A	36
Sudan II	A	76
Sudan III	A	223
Sudan III	(CDCo)	223
Sudan IV	A	232
Sudan IV	(CDCo)	232
Sudan Brown	A	105
Sudan Brown S	(Sch)	105
Sulphamine Brown A	WD	107
Sulphamine Brown B	WD	116
Sulphaniline Brown O	K	708
Sulphaniline Brown R	K	708
Sulphine Blue B	CG	S125
Sulphine Blue RR	CG	S126
Sulphine Brown	LD	707
Sulphine Brown B	CG	737
Sulphine Brown G	CG	737
Sulpho Blacks B, 2 B	H	744
Sulpho Green B	NF	U550
Sulpho Green C	NF	U550
Sulpho Rosazeine B	M	U475
Sulpho Rosazeine G	M	U476
Sulphogene Brown G, D	I	757
Sulpholine G	AW	U589
Sulpholine G	K	U387
Sulpholine R	AW	U590
Sulphon Acid Black N 2 B	By	U261
Sulphon Acid Blue B	By	189
Sulphon Acid Blue R	By	188
Sulphon Acid Green B	By	U262
Sulphon Black 3 B	By	256
Sulphon Black G	By	242
Sulphon Orange G	By	A297
Sulphon Orange 5 G	By	A297
Sulphon Violet R	By	A298
Sulphon Yellow 5 G	By	A299
Sulphon Yellow R	By	A299
Sulphonazurine	By	361
Sulphoncyanine BB	B	257a
Sulphoncyanine G	By	257
Sulphoncyanine GR	B	257a
Sulphoncyanine GR	By	257
Sulphoncyanine 5 R	B	257a
Sulphoncyanine 5 R	By	257
Sulphoncyanine 5 RT	By	257
Sulphoncyanine SR	B	257a
Sulphoncyanine Black B	By	265
Sulphoncyanine Black BB	B	265a
Sulphoncyanine Black 2 B	By	265
Sulphoncyanine Black GR	B	265a
Sulphur Black	A	720A
Sulphur Black A	A	720A
Sulphur Black AW	A	720A
Sulphur Black AWL	A	720A
Sulphur Black B	A	720A
Sulphur Black 2 B	A	720A
Sulphur Black 2 B	K	720K
Sulphur Black 4 B	A	720A
Sulphur Black BR	K	720K
Sulphur Black BRH	K	720K
Sulphur Black FAG	A	720A
Sulphur Black FT	A	720A
Sulphur Black GF	K	720K
Sulphur Black H	A	720A
Sulphur Black JBL	A	720A
Sulphur Black KCB	K	720K
Sulphur Black MA	K	720K

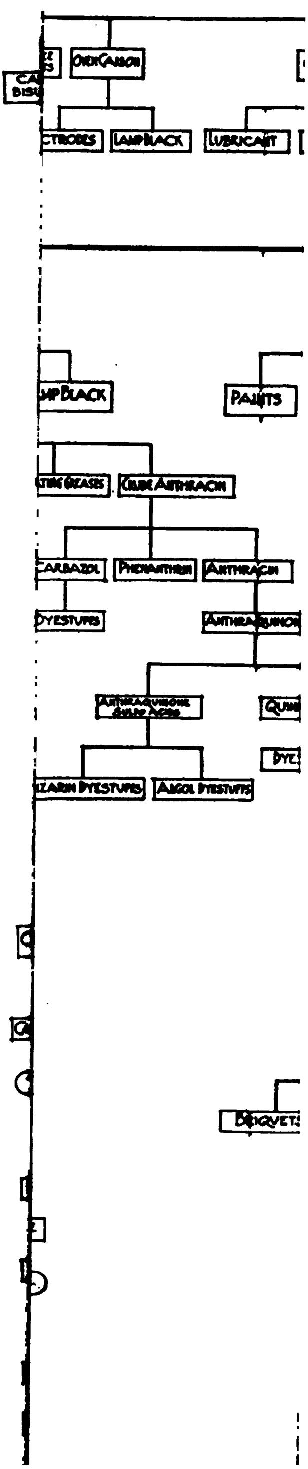
Name.	Manufacturer.	Serial No.
Sulphur Black T	A	720
Sulphur Black TFA	A	720A
Sulphur Black TG	A	720A
Sulphur Black TR	Lev	720Lev
Sulphur Black TS	K	720K
Sulphur Black 5274	K	720K
Sulphur Black 5276	K	720K
Sulphur Black 5285	K	720K
Sulphur Black 5289	K	720K
Sulphur Black 108583	A	720A
Sulphur Black Brown N	A	S1
Sulphur Black Brown NB	A	S2
Sulphur Blue B	A	S3
Sulphur Blue BE	BK	S123
Sulphur Blue BG	K	S83
Sulphur Blue CHL	K	S83
Sulphur Blue D	A	S4
Sulphur Blue G	K	S83
Sulphur Blue L	A	S6
Sulphur Blue PR	A	S7
Sulphur Blue R	A	S8
Sulphur Blue 2 R	A	S9
Sulphur Blue 4 R	A	S10
Sulphur Blue RR	BK	S124
Sulphur Blue U	K	S83
Sulphur Brilliant Green GK	A	S11
Sulphur Bronze 136	Lev	S168
Sulphur Bronze 158	Lev	S169
Sulphur Brown CL 4 R	A	S12
Sulphur Brown G	A	S13
Sulphur Brown 2 G	A	S14
Sulphur Brown 6 G	A	S15
Sulphur Brown M	I	S165
Sulphur Brown O	A	S16
Sulphur Brown OB	A	S17
Sulphur Brown 527	Lev	S170
Sulphur Brown 731	Lev	S171
Sulphur Brown (bluish)	K	S84
Sulphur Brown (reddish)	K	S84
Sulphur Catechu G	A	S18
Sulphur Catechu R	A	S19
Sulphur Corinth B	A	S20
Sulphur Corinth CLB	A	S21
Sulphur Green 2 BK	A	S22
Sulphur Green 4 BK	A	S23
Sulphur Green G	A	S24
Sulphur Green 4 GK	A	S25
Sulphur Green 309	Lev	S172
Sulphur Green 330	Lev	S173
Sulphur Indigo BA	A	S26
Sulphur Indigo CL	A	S28
Sulphur Indigo CLGG	A	S29
Sulphur Indigo Blue RCL	K	S85
Sulphur Indigo Blue 827	K	S85
Sulphur Olive	S	S167
Sulphur Olive B	A	S30
Sulphur Red Brown 2 RK	A	S31
Sulphur Red Brown 6 RK	A	S32
Sulphur Violet R	A	S33
Sulphur Violet Y	A	S34
Sulphur Yellow ES	K	U388
Sulphur Yellow G	A	S35
Sulphur Yellow G	K	U388
Sulphur Yellow 4 G	A	S36
Sulphur Yellow I	A	S37
Sulphur Yellow R	A	S38
Sulphur Yellow R	I	S166
Sultan 5 B	H	363
Sultan 10 B	H	405
Sultan Orange DS	H	404d
Sultan Yellow H	H	304
Sun Yellow G	S	9
Sun Yellow 3 GC	G	9
Sun Yellow RR	S	9
Supramine Brown R	By	U263
Supramine Yellow R	By	U264
Tabora Black X	A	A45
Tannin Heliotrope	C	685
Tannin Orange	C	74
Tartrazine	AW	23
Tartrazine	By	23
Tartrazine	BK	23
Tartrazine	I	23

Name.	Manufacturer.	Serial No.
Tartrazine	S	23
Tartrazine G	B	23
Tartrazine X	B	23
Tartrazine XX	B	23
Terra Cotta FC	G	209
Terra Cotta RGN	G	58
Tetra Cyanole (V. M.)	C	543d
Thiazine Blue	G	A659
Thiazine Brown R	B	U192
Thiazine Red G	B	197
Thiazine Red R	B	194
Thiazine Yellow G	By	198
Thiazine Yellow 3 G	By	198
Thiazine Yellow GL	By	198
Thiazol Yellow	S	198
Thiazol Yellow RH	By	51
Thio Catechine	P	715
Thio Cotton Black	WD	721
Thio Indigo Brown G	K	904
Thio Indigo Brown 2 R	K	902
Thio Indigo Orange R	K	913
Thio Indigo Pink 247	K	910
Thio Indigo Pink 2475	K	910
Thio Indigo Red B	K	912
Thio Indigo Red 3 B	K	918
Thio Indigo Rose AN	K	910
Thio Indigo Rose BN	K	910
Thio Indigo Scarlet G	K	906
Thio Indigo Scarlet R	K	905
Thio Indigo Scarlet S	K	916
Thio Indigo Scarlet 6086	K	916
Thio Indigo Violet 2 B	K	920
Thio Indigo Violet K	I	900
Thio Indigo Yellow 3 GN	K	913a
Thio Vesuvine BB	Q	U815
Thiocarbone NNG	C	720
Thiocarmine R	C	662
Thioflavine (V. M.)	C	618
Thioflavine OIO	K	615
Thioflavine S	S	615
Thioflavine 6.4	K	615
Thiogene Black BB	M	720M
Thiogene Black 5 B	M	720M
Thiogene Black M	M	720M
Thiogene Black MA	M	720M
Thiogene Black MM	M	720M
Thiogene Black ML	M	720M
Thiogene Black MZ	M	720M
Thiogene Blue RL	M	S99
Thiogene Blue R	M	S97
Thiogene Blue 2 R	M	S98
Thiogene Cyanine B	M	S107
Thiogene Cyanine G	M	S108
Thiogene Dark Red G	M	S109
Thiogene Deep Blue BR	M	S111
Thiogene Deep Blue	M	S110
Thiogene Green BL	M	S112
Thiogene Green G	M	S113
Thiogene Green GG	M	S114
Thiogene Green GL	M	S115
Thiogene Khaki N	M	S116
Thiogene New Blue JL	M	S117
Thiogene Olive Green GGN	M	S118
Thiogene Orange R	M	S119
Thiogene Violet V	M	S120
Thiogene Yellow GG	M	S121
Thiogene Yellow 5 G	M	S122
Thiogene Brown G	M	S100
Thiogene Brown GG	M	S102
Thiogene Brown GC	M	S101
Thiogene Brown GR	M	S103
Thiogene Brown G 2 R	M	S104
Thiogene Brown R	M	S105
Thiogene Brown S	M	S106
Thion Black (V. M.)	K	720K
Thion Blue B	K	736
Thion Brown (V. M.)	K	S86
Thion Dark Blue BO	K	S87
Thion Direct Blue	K	736a
Thion Green 2 G	K	S88
Thion Green 829	K	S89
Thion Navy Blue (V. M.)	K	S90
Thion Orange (V. M.)	K	S91
Thion Purple O	K	S92
Thion Violet	K	S93
Thion Violet Black	K	720K
Thion Yellow (V. M.)	K	S96
Thion Yellow 2 G	K	S94
Thion Yellow 5 G	K	S95
Thional Black G	S	719
Thional Red Brown	S	747
Thionine Blue GO	A	661
Thionine Blue GO	M	661
Thionine Blue OO	A	661
Thionine Blue 3O	A	661
Thionol Black S	Lev	720Lev
Thionol Black XX	Lev	720Lev
Thiophenol Black T	I	720
Thiophor Black WLN	CJ	720CJ
Thiophor Blue B	CJ	S127
Thiophor Bronze 5 G	CJ	713
Thiophor Dark Brown B	CJ	S128
Thiophor Deep Green CG	CJ	S129
Thiophor Indigo CJ	CJ	734
Thiophor Khaki	CJ	S130
Thiophor Orange O	CJ	S131
Thiophor Yellow R	CJ	S132
Thiophor Yellow Bronze G	CJ	714
Thiophor Yellow Olive	CJ	S132a
Thioxine Black ABOOOO	GrE	720GrE
Thioxine Black ABBOOOO	GrE	720GrE
Thioxine Black 3 BOOO	GrE	720GrE
Thioxine Black GB	GrE	720GrE
Thioxine Black 1151	GrE	720GrE
Thioxine Black 3705	GrE	720GrE
Thioxine Brown 5 G	GrE	S133
Thioxine Brown 2 GR	GrE	S134
Titan Como 2 B	H	A761
Titan Como R	H	A762
Titan Fast Black B	H	A763
Titan Orange	H	A764
Titan Red	H	196
Titan Scarlet Y	H	196
Titan Yellow Y	H	198
Tolamine Violet	I	U690
Tolane Red B, G	K	43
Toluidine Blue	B	659a
Toluidine Blue	M	659a
Toluylene Black GOO	GrE	A477
Toluylene Brown G	GrE	285
Toluylene Brown R	GrE	488
Toluylene Fast Brown 2 R	By	U266
Toluylene Fast Brown 3 G	By	U265
Toluylene Fast Orange GL	By	392d
Toluylene Orange G	A	392
Toluylene Orange G	By	392
Toluylene Orange G	S	392
Toluylene Orange GOO	GrE	392
Toluylene Orange R	M	287
Toluylene Red OO	GrE	358
Toluylene Yellow OO	GrE	286
Tolyl Black B	M	265
Tolyl Black BB	M	265
Tolyl Black BG	M	265
Tolyl Blue 5 R	M	257
Tolyl Blue SB	M	189
Tolyl Blue SR	M	188
Tolyl Blue ST	M	257b
Tolyl Blue 7656	M	257b
Tonka Brown GS	I	U691
Triazol Blue B	GrE	A478
Triazol Blue BOO	GrE	A479
Triazol Blue BBOO	GrE	A480
Triazol Blue 4 BOO	GrE	A481
Triazol Blue R	GrE	A482
Triazol Blue 3242	GrE	A483
Triazol Bordeaux B	GrE	A484
Triazol Brown GOOA	GrE	A485
Triazol Brown GOOO	GrE	A486
Triazol Brown HRO	GrE	A487
Triazol Brown SOOO	GrE	A488
Triazol Dark Blue BHOOO	GrE	A490
Triazol Dark Blue BHPOOOO	GrE	A491
Triazol Dark Blue BHTOOO	GrE	A492
Triazol Dark Blue BOO	GrE	A489
Triazol Dark Blue 3 G	GrE	A493

Name.	Manufacturer.	Serial No.
Wool Black 3 B	Lev	220b
Wool Black 4 B	A	220
Wool Black 4 B	I	272c
Wool Black 6 B	A	220
Wool Black 10 B	tM	217g
Wool Black 4 BC	A	220
Wool Black 4 BFL	A	220
Wool Black 6 BS	A	220
Wool Black 4 BX	A	220
Wool Black CD	K	U390
Wool Black CL	K	U390
Wool Black DW	BK	269
Wool Black G	A	220b
Wool Black 6 G	G	U646
Wool Black GG	tM	217
Wool Black GR	A	220b
Wool Black GRF	A	220b
Wool Black HN	tM	217g
Wool Black LR	K	U390
Wool Black MX	Q	220b
Wool Black N	M	A441
Wool Black NN	I	272c
Wool Black N 4 B	By	A301
Wool Black NC	K	U390
Wool Black NP	By	A302
Wool Black NP	CG	272c
Wool Black NR	K	U390
Wool Black SG	GrE	272c
Wool Black V	K	U390
Wool Black 11714	I	272c
Wool Black 9904	BK	269
Wool Black (greenish)	K	U390
Wool Blue	C	U300
Wool Blue	Q	538b
Wool Blue (V.M.)	K	U391
Wool Blue (V.M.)	Lev	565a
Wool Blue B	AW	562b
Wool Blue 2 B	A	565a
Wool Blue 5 B	A	565a
Wool Blue 2 BX	A	565a
Wool Blue G	A	565
Wool Blue G	K	U391
Wool Blue 2 G	K	U391
Wool Blue G 446 N	K	U391
Wool Blue M	AW	562b
Wool Blue N	By	562a
Wool Blue R	A	565a
Wool Blue R	By	562b
Wool Blue 5 R	H	538
Wool Blue RX	A	565a
Wool Blue S	K	U391
Wool Blue S	Q	538b
Wool Blue 2 S	K	U391
Wool Blue SB	AW	562b
Wool Blue SDOO	B	530d
Wool Blue SLOO	B	530d
Wool Blue SR	By	562b
Wool Blue TB	K	U391
Wool Blue 1092	A	565a
Wool Blue Black 2019	K	U392
Wool Brown MC	K	U393
Wool Brown P	K	U393
Wool Brown SVR	K	U393
Wool Brown UB	K	U393
Wool Brown 2808	K	U393
Wool Canary OD	H	U765
Wool Cerise SR	K	U394
Wool Claret 21 B	Lev	U742
Wool Claret Red 87 B	Lev	U743
Wool Claret Red 211	Lev	U743
Wool Claret Red 357	Lev	U743
Wool Fast Black B	B	U200
Wool Fast Blue BL	B	U201
Wool Fast Blue BL	By	U271
Wool Fast Blue GL	By	U272
Wool Fast Blue L	I	U693
Wool Fast Orange G	B	U202
Wool Fast Yellow G	B	U203
Wool Fast Yellow 5 GX	B	U204
Wool Fast Yellow WG	B	U205
Wool Green (V. M.)	K	U395
Wool Green	tM	566a
Wool Green B	Q	566
Wool Green BS	By	566
Wool Green BS	BK	566
Wool Green S	B	566
Wool Green S	CV	566
Wool Green SAK	I	566a
Wool Green 16437	L	566a
Wool Jet Black 3 B	A	220c
Wool Red	K	168b
Wool Red (V. M.)	C	236
Wool Red C	S	236b
Wool Red CS	K	168b
Wool Red G	B	A140
Wool Red K 10 BX	B	A141
Wool Red L	K	168b
Wool Red MC	K	168b
Wool Red SB	CG	64
Wool Red SOC	K	168b
Wool Red 7742	BK	168b
Wool Scarlet	K	U396
Wool Scarlet (V. M.)	Lev	80b
Wool Scarlet 5 B	H	80c
Wool Scarlet RR	B	A142
Wool Scarlet 4 R	BK	80a
Wool Scarlet 3 RB	B	A143
Wool Violet B	Q	59a
Wool Violet R	K	U397
Wool Violet S	B	59
Wool Violet SL	K	U398
Wool Yellow	(Sch)	23
Wool Yellow AT	K	U399
Wool Yellow D	K	U399
Wool Yellow G	K	U399
Wool Yellow LDV	K	U399
Wool Yellow R	K	U399
Wool Yellow S	G	U647
Wool Yellow 1501	K	U399
Xanthine CJB	I	606
Xanthine I	P	606
XL Acid Eosine 5 B	H	590a
XL Blue	H	U770
XL Blue GR	H	U770
XL Brown RH	H	284a
XL Green Y	H	U771
XL Maroon	H	U772
Xylene Blue AS	S	508
Xylene Blue ASL	S	508
Xylene Blue BS	S	508
Xylene Blue VS	S	507
Xylene Light Yellow 2 G	K	22
Xylene Light Yellow 2 G	S	22
Xylene Light Yellow R	K	22
Xylene Red B	S	579
Xylene Yellow 3 G	K	22
Xylidine Orange RR	BK	79
Xylidine Scarlet	(Sch)	82
Yellow (V. M.)	CJ	U500
Yellow (V. M.)	I	141d
Yellow CP	Lev	142a
Yellow FY	H	U773
Yellow NF	BK	U487
Yellow NF	Q	U817
Yellow PC	DH	U601
Yellow R	W	141d
Yellow 2 S	P	137
Yellow 15	S	U715
Yellow 20	H	U773
Yellow 33413	H	U773
Yellow 41471	H	U733
Yellow (for feathers)	WD	U549
Yellow Black M	BK	U488
Yellow Fast-To-Soap	P	203
Yellow Fat Color	B	68
Yellow Green 6 B	BK	U489
Zambesi Black B	A	A46
Zambesi Black 2 BA	A	A47
Zambesi Black BH	A	A48
Zambesi Black BR	A	A49
Zambesi Black OTA	A	A53
Zambesi Black D	A	A50
Zambesi Black F	A	A51
Zambesi Black OBA	A	A54

Name.	Manufacturer.	Serial No.	Name.	Manufacturer.	Serial No.
Zambesi Black R	A	A52	Zambesi Red 4 B	A	A59
Zambesi Black V	A	A55	Zambesi Red 6 B	A	A60
Zambesi Black VM	A	A56	Zambesi Red 8 B	A	A61
Zambesi Bordeaux TB	A	A57	Zambesi Rubine B	A	A62
Zambesi Brown G	A	330	Zambesi Scarlet 6 B	A	A63
Zambesi Brown 2 G	A	330	Zambesi Scarlet 2 BL	A	A64
Zambesi Brown 4 R	A	330a	Zambesi Scarlet FR	A	A65
Zambesi Pure Blue 4 B	A	274b	Zambesi Scarlet PR	A	A66
Zambesi Red B	A	A58			

PRO


OVEN CARBON
CTRODES
LAMPBLACK
LUBRICANT
MP BLACK
PAINTS
CRUDE ANTHRACIN
CARBAZOL
PHENANTHRIN
ANTHRACIN
DYESTUFFS
ANTHRAQUINONE SULFO ACIDS
IZARIN DYESTUFFS
ALGOL DYESTUFFS
BRIQUETS